

# EXHIBIT F

Nicolette S. Horbach, M.D.

0 01

2 KATHRYN E. CORBET and : SUPERIOR COURT OF NEW JERSEY  
3 ERIC R. CORBET, : LAW DIVISION - BERGEN COUNTY  
4 Plaintiffs, : DOCKET NO. BER-L-14589-14 MCL  
5 v. :  
6 ETHICON, INC., ETHICON : MASTER DOCKET NO.  
7 WOMEN'S HEALTH AND : BER-L-11575-14  
8 UROLOGY, a Division of :  
9 Ethicon, Inc., : CIVIL ACTION  
10 GYNECARE, JOHNSON & : In re Pelvic Mesh/Gynecare  
11 JOHNSON, and JOHN DOES : Litigation  
12 1-20, : Case No. 291 CT  
13 Defendants. :

14

15

16 VIDEOTAPED DEPOSITION OF NICOLETTE S. HORBACH, M.D.

17 Washington, D.C.

18 December 23, 2015

19 10:00 a.m.

20

21

22

23

24 Reported by: Linda S. Kinkade RDR CRR RMR CSR

25

Nicolette S. Horbach, M.D.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The following is the transcript of the  
videotaped deposition of NICOLETTE S. HORBACH, M.D.  
held at the offices of:

O'Melveny & Myers LLP  
1625 I Street, NW  
Washington, DC 20006

Taken pursuant to applicable Rules of Civil  
Procedure, before Linda S. Kinkade, Registered  
Diplomate Reporter, Certified Realtime Reporter,  
Registered Professional Reporter, Registered Merit  
Reporter and Certified Shorthand Reporter, as licensed  
by the State of California, and Notary Public, as  
commissioned by the District of Columbia.

Nicolette S. Horbach, M.D.

1 APPEARANCES:

2

3 On Behalf of Plaintiff:

4 Seeger Weiss, LLP

5 By: Jeffrey S. Grand, Esquire

6 (Appearing via videoconference)

7 77 Water Street, 26th Floor

8 New York, New York 10005

9 212-584-0700

10 jgrand@seegerweiss.com

11

12

13

14 On Behalf of Defendants:

15 Ruprecht Hart Weeks & Ricciardulli, LLP

16 By: Judith A. Wahrenberger, Esquire

17 53 Cardinal Drive

18 Suite 1

19 Westfield, New Jersey 07090

20 908-232-4800

21 twahrenberger@rhwlawfirm.com

22

23

24

25

1 APPEARANCES (continued):

2

3 Also Present:

4

5 On Behalf of Defendants:

6 Bowman and Brooke LLP

7 By: Barry J. Koopmann, Esquire

8 150 South Fifth Street

9 Suite 3000

10 Minneapolis, Minnesota 55402

11 610-339-8682

12 barry.koopmann@bowmanandbrooke.com

13

14

15

16

17

18 Michael Gay, Video Specialist

19

20

21

22

23

24

25

Nicolette S. Horbach, M.D.

1	INDEX OF EXAMINATION	
2		
3	EXAMINATION of NICOLETTE S. HORBACH, M.D.	PAGE
4	BY MR. GRAND	8
5		144
6	BY MS. WAHRENBERGER	120
7		153
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

Nicolette S. Horbach, M.D.

1	E X H I B I T S		
2			
3	NO.	DESCRIPTION	PAGE
4	Exhibit 1	Notice of Video Deposition	11
5	Exhibit 2	Expert General Report of Dr.	48
6		Nicolette Horbach	
7	Exhibit 3	Supplemental Report Regarding	49
8		Stress Urinary Incontinence and	
9		Ethicon Retropubic Mid-Urethral	
10		Slings	
11	Exhibit 4	Updated Exhibit B to the General	67
12		TVT Report	
13	Exhibit 5	NSH TVT Additional References	85
14	Exhibit 6	Email correspondence from E.	105
15		Globerman re TVT Targets	
16	Exhibit 7	Email correspondence from C.	107
17		Pypcznski re INOVA	
18	Exhibit 8	Email correspondence from Cindy	109
19		Pypcznski	
20	Exhibit 9	Email correspondence from J.	114
21		Russo	
22			
23			
24			
25			

Nicolette S. Horbach, M.D.

1 P R O C E E D I N G S

2 VIDEO SPECIALIST: We are on the record.

3 The time now is 10:01. This marks the beginning of  
4 disc 1 for the videotaped deposition testimony of  
5 Dr. Nicolette S. Horbach, in the matter of Corbet  
6 versus Ethicon, et al. This case is pending in the  
7 Superior Court of New Jersey, Law Division, Bergen  
8 County, Master Docket No. BER-L-11575-14.

9 Today's date is December the 23rd, 2015. This  
10 deposition is being conducted at 1625 Eye Street,  
11 northwest, Washington, D.C.

12 Will all attorneys present please identify  
13 themselves and who they represent.

14 MR. GRAND: Jeffrey Grand on behalf of  
15 plaintiff Kathryn Corbet.

16 MS. WAHRENBERGER: Judith Wahrenberger on  
17 behalf of Ethicon, Johnson & Johnson.

18 MR. KOOPMANN: Barry Koopmann from Bowman  
19 and Brooke law firm on behalf of Ethicon and  
20 Johnson & Johnson.

21 VIDEO SPECIALIST: My name is Michael Gay.  
22 I am with Golkow Technologies. Our court reporter  
23 today is Linda Kinkade, also with Golkow Technologies,  
24 and will now swear in the witness.

25 NICOLETTE S. HORBACH, M.D.,



Nicolette S. Horbach, M.D.

1           Having been first duly sworn, was thereafter  
2           examined and testified as follows:

3                       VIDEO SPECIALIST: You may proceed.

4                               EXAMINATION

5           BY MR. GRAND:

6                       Q. Good morning, Dr. Horbach. My name is  
7           Jeffrey Grand. I represent plaintiff, Kathryn Corbet,  
8           and her husband, Eric Corbet.

9                       Before we begin, have you been deposed before?

10                      A. Yes, I have.

11                      Q. Okay. How recently were you deposed?

12                      A. I believe within a year or so, within the  
13           last year.

14                      Q. Okay. I'm going to assume you know most of  
15           the ground rules for a deposition. I'm just going to  
16           tell you that, if you need a break at any time, let me  
17           know; I'll be happy to accommodate you. I would ask,  
18           if -- if we're in the middle of a question and an  
19           answer, that we complete it before you take a break,  
20           but if you need a break for any reason, let me know.

21                      Also, if I ask a question that is unclear to  
22           you, please tell me and I will do my best to rephrase  
23           it. Also, because the court reporter needs to take  
24           down our questions and answers, I would ask that you  
25           try to avoid nodding in responses or hand gestures. I

1 will try to do the same.

2 Also, to the extent that -- I ask that you let  
3 me finish a question before you attempt to answer it.  
4 I know we all have a tendency in conversation to  
5 anticipate questions and answers, but I will do my  
6 best not to step on your answers, and I would ask that  
7 you do your best not to step on my questions. Okay?

8 A. That's fine. Yes.

9 Q. Okay. We had just discussed that you have  
10 been deposed before. Can you tell me -- I believe --  
11 when the last time you were deposed?

12 A. I believe my last deposition was within the  
13 last year or so. It was in the Pamela Wicker versus  
14 Ethicon, J&J case where I was deposed by Mr. Adam  
15 Slater.

16 Q. Okay. And have you been deposed in any  
17 other mesh-related cases?

18 A. Yes. I was also deposed in the case of  
19 Connie Schubert, I believe is the last name, versus  
20 J&J, Ethicon, which was, I believe, also a Prolift  
21 case.

22 Q. Okay.

23 A. I've also -- I'm sorry. I've also been  
24 deposed in a medical malpractice case as a defense  
25 witness in -- two to three years ago in Atlanta,

1 Georgia.

2 Q. Okay. Any other cases you can think of?

3 A. Not regarding mesh.

4 Q. Okay.

5 MS. WAHRENBERGER: Just answer the  
6 question.

7 BY MR. GRAND:

8 Q. In the three mesh-related cases that  
9 you described, did you testify at trial in any of  
10 those cases?

11 A. No, I did not.

12 Q. Outside the context of a mesh-related case,  
13 have you served as an expert witness?

14 A. Yes, I have.

15 Q. Okay. When was the last time you did that?

16 A. I believe that the last time I served as a  
17 both treating physician and causal -- causation, I  
18 guess you call it -- physician, was within the last  
19 two or three years here in Montgomery County,  
20 Maryland.

21 Q. Okay. And what sort of case was that?

22 A. The -- I was a plaintiff's witness --  
23 expert. The patient had developed a periclitral cyst  
24 that a physician had removed the cyst and the patient  
25 subsequently became an orgasmic and sought my care to

1 try to see if I could repair the nerves. And she  
2 subsequently then went forward with a malpractice suit  
3 against the original surgeon.

4 Q. Okay. Thank you. Would it be fair to say  
5 that, outside the context of the three mesh-related  
6 cases you've already told me about, that your previous  
7 testimony in court cases has been with medical  
8 malpractice cases?

9 A. Yes, that's correct.

10 Q. Okay. Have you been an expert in any other  
11 drug or medical device litigation --

12 A. No --

13 Q. -- other than mesh?

14 A. No, I have not.

15 Q. Okay. Thank you. Doctor, we're going to  
16 mark as Exhibit 1 the deposition notice that was  
17 served in this case.

18 (Exhibit 1 was marked for identification.)

19 BY MR. GRAND:

20 Q. Doctor, have you seen this before?

21 A. Yes, I saw this several days ago.

22 Q. Okay. Did you read it?

23 A. Yes.

24 Q. Okay. Have you brought any of the materials  
25 requested in the notice with you today?

1           A. I brought materials that were -- that I  
2           have. Some of the requested materials I -- I don't  
3           ever keep copies of or I don't have copies of, so it's  
4           not really relevant.

5           MS. WAHRENBERGER: And for the record we  
6           have provided you with the thumb drive of some of the  
7           documents that are responsive to this notice to  
8           produce.

9           MR. GRAND: Okay. We'll mark that later.  
10          I assume you brought it to give to the court reporter?

11          MS. WAHRENBERGER: The thumb drive? Yes,  
12          we have it.

13          MR. GRAND: Yeah. Okay. Thank you. I  
14          appreciate that. I had requested that, and obviously  
15          that makes things easier.

16          BY MR. GRAND:

17          Q. Okay. Doctor, have you -- well, first off,  
18          let's just go quickly through the notice so I can get  
19          an understanding of what will be included on the thumb  
20          drive.

21          Can you turn to Exhibit A, which is the third  
22          page?

23          A. Yes.

24          Q. Okay. On the thumb drive that you brought  
25          with you today, will it contain any documents related

1 to your fees and billing in this case?

2 A. No, it will not.

3 Q. Is that because you haven't generated any  
4 invoices yet in this case?

5 A. Correct.

6 Q. Has your -- with respect to item 2, the CV,  
7 is the CV that's attached to your general report the  
8 most up-to-date CV you have?

9 A. I actually updated the CV a few days ago  
10 per this request, and I don't know whether you have  
11 that most recent copy. I had forwarded it to the  
12 attorneys, but I don't know whether you received it.

13 Q. Okay. I have not, but I appreciate that.

14 A. I have a copy here. Would you like -- I  
15 have a copy here, if you don't have.

16 MR. GRAND: Is it on the thumb drive?  
17 Could counsel confirm that?

18 MS. WAHRENBERGER: No. We have a hard copy  
19 here at the deposition.

20 MR. GRAND: Okay. Obviously I can't see it  
21 remotely, so --

22 THE WITNESS: There are very -- sorry.  
23 There are only a couple changes compared to I think  
24 what would have been on my original report.

25 BY MR. GRAND:

1 Q. Thank you. Can you describe those changes  
2 for me?

3 A. There is one additional publication that  
4 has come out in 2015 where I'm one of the coauthors.

5 Q. Okay. What's the name of that article?

6 A. The -- sorry. The article is called  
7 "Ureteral Compromise in Laparoscopic versus Vaginal  
8 Uterosacral Ligament Suspension."

9 Q. Okay. And what journal is that published  
10 in?

11 A. It's published in Female Pelvic Medicine  
12 and Reconstructive Surgery.

13 Q. Okay. Thank you. And I think you said  
14 there was another change --

15 A. The only other change --

16 Q. -- to the CV?

17 A. The only other change is that I will be  
18 serving as a expert reviewer for research grant  
19 applications for the NIH regarding the Pelvic Disorder  
20 Treatment Network grant fund applications.

21 Q. Okay. And is that an appointment by the  
22 NIH or is that something you had to apply for?

23 A. No, I was asked by the -- I was contacted  
24 and asked by the NIH to serve as a special reviewer.  
25 I've done that previously.

1 Q. Okay. Is that typically something that --  
2 is there a term that's served for that or is that an  
3 indefinite role?

4 A. The appointment is for specific grant  
5 proposals, so it's specifically regarding this  
6 particular project for a five-year pelvic floor or  
7 Pelvic Disorder Treatment Network grants for the U.S.

8 Q. Okay. And what is a Pelvic Disorder  
9 Network?

10 A. The pelvic floor or Pelvic Disorder  
11 Treatment Network is a multicenter collaborative  
12 research program that the NIH funds with approximately  
13 eight to nine different sites around the country who  
14 pursue research in primarily prolapse but also  
15 involving stress urinary incontinence or other  
16 disorders of the pelvis.

17 Q. Okay. So I guess under this -- under the  
18 umbrella of this network, researchers will be  
19 submitting grant proposals to you to review?

20 A. Yes, that's correct.

21 Q. Okay. And will you be -- are you the sole  
22 reviewer or will this be in conjunction with other  
23 physicians?

24 A. Typically it is a committee that reviews  
25 the different proposals. In past experience the



1 committee had approximately six reviewers to review  
2 the proposals, score them, and then provide the NIH  
3 with feedback regarding the priority scoring for who  
4 should be funded.

5 Q. Okay. With respect to the committee of  
6 reviewers, are -- is it comprised of specialists in  
7 various areas?

8 A. Yes, the committee is typically comprised  
9 of individuals who may be urogynecologists like  
10 myself. I don't remember if there were any  
11 urologists. Epidemiologists would be potentially  
12 involved as well.

13 Q. I guess my question is, in your role, would  
14 you be comfortable signing off on all aspects of a  
15 proposal including clinical trial design?

16 MS. WAHRENBERGER: Objection to the form of  
17 the question. You can answer.

18 THE WITNESS: It would depend on the  
19 specifics of what the issues were whether or not I  
20 would be comfortable signing off on them.

21 BY MR. GRAND:

22 Q. But you don't hold yourself out as an  
23 epidemiologist, correct?

24 A. Correct.

25 Q. Okay. Do you hold yourself out as an

1 expert in clinical trial design?

2 MS. WAHRENBERGER: Objection to the form of  
3 the question. You can answer.

4 THE WITNESS: I feel that I have a fairly  
5 strong background and expertise in that particular  
6 area.

7 BY MR. GRAND:

8 Q. Have you designed randomized control clinical  
9 trials before?

10 A. I have been part of the process of  
11 designing them, yes.

12 Q. Okay. How many times have you participated  
13 in the process of designing a randomized control clinical  
14 trial?

15 A. I can't tell you the specific number. It  
16 was a little bit more during the early stages of my  
17 academic career, but a number of times, including  
18 submissions of NIH grants myself personally with me as  
19 the principal investigator.

20 Q. Okay. How many times?

21 A. I don't recall the specific number.

22 Q. Less than ten?

23 A. Yes.

24 Q. Less than five?

25 A. I don't know.

1 Q. You had said earlier that there are certain  
2 types of documents that you don't keep in your file.  
3 Could you describe those types of documents for me?

4 A. One of the things that was requested was  
5 photos of any mesh material that I have ever excised.  
6 I don't take photos intraoperatively. The specimen is  
7 sent to the pathologist for documentation and  
8 analysis.

9 Q. Okay. And have you conducted any research  
10 yourself in examining explants, mesh explants?

11 A. I'm not sure what you mean by "research."  
12 Microscopic or --

13 Q. Yeah. Well, let's start there. Have you  
14 examined microscopically mesh explants?

15 A. I have reviewed them with the pathologists  
16 in individual patients where I have removed the  
17 explants.

18 Q. Okay. And when was the last time you did  
19 that?

20 A. It's probably within the last 12 months or  
21 so. We're not having to explant quite as many meshes  
22 as we have done in past time periods, so it's a little  
23 less frequent now.

24 Q. Is it your practice to conduct a  
25 microscopic examination of all the mesh you explant?

1           A. It's my practice to send those for  
2           microscopic analysis and histology. The pathology  
3           department will in the majority of cases run the  
4           microscopic analysis. Occasionally they will -- I've  
5           had times where they haven't; they have just done  
6           gross identification of it.

7           Q. Okay. So how many times have you reviewed  
8           mesh explants under a microscope?

9           A. Dozens.

10          Q. Dozens? Do you keep any database or  
11          collection of records relating to that?

12          MS. WAHRENBERGER: Objection to the form of  
13          the question. You can answer it.

14          THE WITNESS: Database relating to what my  
15          findings are of the -- of that?

16          BY MR. GRAND:

17          Q. Yes.

18          A. No, I don't.

19          Q. Yeah. Okay. So any findings you may have  
20          had you would have been recorded in the patient's  
21          individual records?

22          A. Yes, they -- yes, they may have been  
23          recorded in the patient's individual records, yes.

24          Q. With respect -- what other types of  
25          documents would you not have in your file in

1 connection with this case?

2 MS. WAHRENBERGER: Referring to the notice  
3 to produce?

4 MR. GRAND: Yes.

5 THE WITNESS: The -- we talked previously  
6 about I have not submitted any invoices or bills for  
7 my services. We talked about the photographs. The --  
8 I didn't really quite understand the number 7, any  
9 documents regarding any conversations I've had with  
10 anybody regarding mesh. That is a little bit broad  
11 and/or wasn't really clear to me what, if anything, I  
12 was supposed to produce for that.

13 BY MR. GRAND:

14 Q. Have you billed for your time in the Wicker  
15 case?

16 MS. WAHRENBERGER: Excuse me. Just before  
17 you move on, Mr. Grand, I know the doctor was still  
18 looking at Exhibit A. So if you want to know whether  
19 there are any other portions of Exhibit A that she  
20 would not keep in a file, you've interrupted her  
21 response.

22 MR. GRAND: I'm sorry. I thought she was  
23 done. She was silent. So it's a little hard for me  
24 to see.

25 MS. WAHRENBERGER: Okay.

1 BY MR. GRAND:

2 Q. I'm sorry, doctor. Please go on.

3 MS. WAHRENBERGER: All right.

4 THE WITNESS: Sorry. I was silently  
5 reviewing, going through to make sure that I had  
6 included any of this.

7 I think that the majority of this is listed  
8 in -- in either the thumb drive, the literature,  
9 et cetera. I have not communicated with any other  
10 defendants' experts, I believe was number 16. There  
11 isn't any communication for me to provide.

12 The number 15 is difficult for me to provide  
13 you for presentations or lectures, primarily because  
14 my computer that had any of that on it died within the  
15 last six or eight months, and I have no access to  
16 that, and I do not have any lectures that I've given  
17 since on the new computer.

18 I have testified in front of a Congressional  
19 hearing regarding funding for or trying to advocate  
20 for funding for research in our field, including  
21 urinary incontinence. I never received any transcript  
22 and wouldn't even have the faintest idea how to  
23 actually find that, and that was over ten years ago.  
24 So that part I, unfortunately, can't give you.

25 I think the rest of the information I have here

1 with me or it's on the thumb drive.

2 MS. WAHRENBERGER: Look at 17.

3 THE WITNESS: 17 is -- oh, 17, no, I do not  
4 advertise my services as an expert in any way or  
5 website or anything like that, no, I do not.

6 BY MR. GRAND:

7 Q. Are you finished, doctor?

8 A. I think I've gone through them all. If  
9 there's anything specifically, we can go back to it.

10 Q. Okay. Thank you. I think you can set that  
11 aside.

12 With respect to the Wicker case, have you  
13 billed for your time in that case?

14 A. No, I have not.

15 Q. And the Schubert case?

16 A. No, I have not. Much to my husband's  
17 chagrin, but, no, I have not.

18 Q. I'm sure defendants appreciate you  
19 providing your services for free.

20 When did you start working on the Wicker case?

21 MS. WAHRENBERGER: Wicker?

22 BY MR. GRAND:

23 Q. Yes.

24 A. You're asking about Wicker?

25 Q. Yes.

1           A. I believe it was sometime in 2012, where I  
2           was first contacted to determine if I would be  
3           interested in serving as an expert witness or expert  
4           reviewer, shall we say.

5           MS. WAHRENBERGER: You answered the  
6           question.

7           BY MR. GRAND:

8           Q. And when did you begin working on the  
9           Schubert case?

10          A. I believe the Schubert case was sometime in  
11          2013.

12          Q. So you've been consulting with defendants  
13          since 2012 and have not billed them yet?

14          A. I'm not a very good business person.  
15          That's correct; I have not billed them yet.

16          Q. Have you entered into any consulting  
17          agreements with Ethicon?

18          A. I don't know whether this is considered  
19          consulting agreement or not where I'm serving as an  
20          expert. So obviously I have the agreement that I'm  
21          reviewing as an expert. In the past I have attended  
22          one focus-type group as a consultant but do not have  
23          any specific consulting agreement with Ethicon.

24          Q. Okay. And was that in 2001?

25          A. Yes, I believe so.



1 Q. Okay. Have you ever served as a proctor or  
2 a preceptor for Ethicon for any of its products?

3 A. No, I have not.

4 Q. Have you ever consulted with Ethicon in  
5 regards to any of its clinical trials of its products?

6 A. No, I have not.

7 Q. Other than as a litigation consultant and  
8 the focus group from 2001, which you've mentioned,  
9 have you consulted with Ethicon in any way?

10 A. No, I have not.

11 Q. Over the years have you had any interaction  
12 with any employees from Ethicon or developed any  
13 professional relationships with employees from  
14 Ethicon?

15 MS. WAHRENBERGER: Beyond what we've  
16 already discussed?

17 MR. GRAND: Yes.

18 MS. WAHRENBERGER: Focus group and the  
19 expert work?

20 MR. GRAND: Yes.

21 THE WITNESS: I have seen Ethicon reps at  
22 our national meeting in the exhibits hall and/or have  
23 seen them at times in the operating room.

24 BY MR. GRAND:

25 Q. You had Ethicon reps in the operating room

1           when you were performing surgeries?

2                   A. I don't know that I've had them actually in  
3           the operating room with me rather than in the sort of  
4           general operating area. I -- Ethicon also has other  
5           products that we use in the operating room that are  
6           not mesh or related for incontinence, et cetera, so  
7           some of my dealings with the Ethicon reps may be more  
8           related to that versus this particular thing, but I do  
9           not recall anytime where I've specifically had an  
10          Ethicon rep in the operating room when I was  
11          performing something like a TVT.

12                  Q. Okay. Why would you have an Ethicon  
13          representative in the operating room for any reason?

14                  MS. WAHRENBERGER: Well, objection. I  
15          think you're mischaracterizing her testimony. She  
16          said she didn't.

17                  MR. GRAND: Well, she started out saying  
18          she's had them in the operating room, so --

19                  THE WITNESS: No, that's -- no, that's --  
20          I'm sorry. Then I mis -- I misspoke or misunderstood.  
21          I've had them in the overall operating -- I've  
22          interacted with them in the overall operating area in  
23          like the hallway, or occasionally when we are looking  
24          at a new product or the hospital is looking at a new  
25          product, they will have them in the hallway to show

1       you what this cauterizing device does versus the one  
2       we traditionally use, if they are negotiating  
3       contracts, things like that. So it was more -- that's  
4       sort of what I mean from the operating room rather  
5       than specifically in the operating room itself.

6       BY MR. GRAND:

7               Q. Okay. Thank you. Have you had Ethicon  
8       sales reps visit you at your office or at your  
9       practice?

10              A. Possibly, but I don't know for sure nor do  
11       I know really who they are or what their names are.

12              Q. Can you provide the names of any Ethicon  
13       employees with whom you've interacted over the years?

14              A. No, I don't have that -- that type of  
15       relationship nor has it been a continuous person at  
16       any point.

17              Q. Have you attended any meetings sponsored by  
18       Ethicon over the years?

19              A. I'm not quite sure what you mean. I mean,  
20       the focus group was, I suppose, sponsored by Ethicon.  
21       Our national meetings, whether at AUGS or SGS,  
22       occasionally these -- those companies will be a, I  
23       don't know, a contributor or whatever you say, I don't  
24       know what you call it, for helping to underwrite maybe  
25       the costs of the meeting. So in that sense I probably

1 have attended something, but nothing specifically  
2 where I've gone just for that particular meeting and  
3 that's just sponsored by Ethicon.

4 Q. Have you ever spoken or given presentations  
5 about Ethicon products?

6 A. Not specifically regarding Ethicon  
7 products. I -- yeah, not specifically regarding  
8 Ethicon products. I may have discussed that Prolift  
9 was a treatment option for prolapse when I'm giving a  
10 generalized discussion about prolapse in a grand  
11 round, something like that, but ...

12 Q. Do you know whether Ethicon has ever  
13 promoted you to patients as a surgeon who uses their  
14 products such as the TVT or the Prolift?

15 A. I do not know that.

16 Q. Have you heard of the Find-a-Doc program?

17 A. Yes, I have, and I'm not listed on that, at  
18 least when I just recently looked, because that's the  
19 first time I've heard about it.

20 Q. Have you -- do you know if you've ever been  
21 listed on it?

22 A. No, I don't.

23 Q. Doctor, do you currently use the TVT  
24 Retropubic device?

25 A. No.

1 Q. When was the last time you implanted a TVT  
2 Retropubic?

3 A. It's probably been over five years, as I  
4 use the TVT Exact at this point now.

5 Q. When was the first time you implanted a TVT  
6 Retropubic?

7 A. I believe it was sometime in 2002 or 2003.

8 Q. In 2003 did you begin using Boston  
9 Scientific slings exclusively?

10 A. Boston Scientific?

11 Q. Yes.

12 A. No, not that I know of or not that I  
13 recall.

14 Q. How often did you -- was the TVT -- was the  
15 TVT Retropubic your preferred sling for patients at  
16 any time?

17 A. Yes, in the early times when I first  
18 started doing the minimally invasive sling procedures.

19 Q. That would be 2002?

20 A. 2002, 2003, as I mentioned.

21 Q. And what other midurethral slings did you  
22 use at that time?

23 A. The only midurethral slings that I have  
24 used are the TVT Retropubic, the TVT Exact, the Boston  
25 Scientific Advantage, and I've implanted one SPARC

1           when the hospital had none of the other ones that I  
2           wanted to use -- they had run out.

3                   Q.   Prior to using TVT Exact, which I believe  
4           you said you started using that about five years ago,  
5           was the Boston Scientific Advantage your preferred  
6           sling?

7                   A.   I don't remember exactly when I  
8           transitioned to using the TVT Exact, but there was a  
9           period of time in the middle where I did use Boston  
10          Scientific more often.

11                  Q.   Would it be fair to say that from the time  
12          you started using the TVT in 2002 or 2003, that you've  
13          used it with decreasing frequency up until the time  
14          you started using the TVT Exact?

15                  MS. WAHRENBARGER:  Objection to the form of  
16          the question.  You can answer.

17                  THE WITNESS:  If I understand your question  
18          to be that have I used the TVT Retropubic with  
19          decreasing frequency, there was a period of time, yes,  
20          where I transitioned to not using it.  So I guess  
21          that's decreasing frequency.

22          BY MR. GRAND:

23                  Q.   And by that you mean you transitioned to  
24          the Boston Scientific sling, correct?

25                  A.   Boston Scientific sling or the TVT Exact.

1 Q. What treatment options do you presently  
2 offer for a patient with stress urinary incontinence?

3 A. Are you asking surgical or nonsurgical or  
4 both or ...

5 Q. Let's go through both.

6 A. I first discuss with patients nonsurgical  
7 treatment options. That includes evaluating and  
8 adjusting behavioral habits, such as fluid intake,  
9 frequency of voiding, habits relative to voiding  
10 before exercise, other changes that I think would  
11 improve their stress incontinence.

12 I offer them the alternative that, if it's not  
13 bothering them enough, that they don't necessarily  
14 have to treat it at all. I offer them trying to use  
15 something like pelvic floor exercises to improve their  
16 muscular tone, if they are already able to at least  
17 generate some type of pelvic floor contraction and  
18 their symptoms are -- tend to be more isolated for  
19 leakage that occurs with cough or sneeze, more brief  
20 exposure for a leakage episode rather than per se  
21 exercise.

22 I offer them vaginal support devices, whether  
23 that is a incontinence ring, incontinence dish, ring  
24 pessaries, a simple o.b. brand tampon to provide  
25 support for the urethra.

1                   Those are -- I don't use medications for stress  
2                   incontinence, since duloxetine, although it has  
3                   effectiveness, is almost never covered by their  
4                   insurance plan, and the out-of-pocket expenses are  
5                   typically too high for them to pay out of pocket.

6                   That would include primarily the surgical -- I  
7                   mean nonsurgical issues. I do tell them, if they are  
8                   leaking with running only, that perhaps swimming might  
9                   be a better exercise since it's going to reduce their  
10                  likelihood of leaking.

11                  Then I discuss with them surgical treatment  
12                  options as well. The surgical treatment options that  
13                  I include are periurethral bulking agents, midurethral  
14                  sling procedures. I discuss with them -- oh, actually  
15                  suburethral plication, which would be more like a  
16                  traditional Kelley-Kennedy type plication with  
17                  sutures.

18                  I discuss with them Burch or retropubic  
19                  urethropexies. I at times will discuss with patients  
20                  an autologous usually rectus fascial sling in select  
21                  patients where I think that that type of option is  
22                  appropriate.

23                  Q. Do you recommend midurethral slings as a  
24                  first-line option for your patients?

25                  A. First-line surgical option?



1 Q. Strike that. Let me go back a little bit.

2 You typically recommend a surgical treatment as  
3 your first-line option for patients with SUI.

4 A. No.

5 Q. Would it be fair to say that you would  
6 counsel them as to more conservative treatments before  
7 recommending surgery?

8 A. Yes.

9 Q. With respect to surgical treatments, do you  
10 recommend midurethral slings as a first-line treatment  
11 option?

12 A. It depends on the patient's specific  
13 situation, medical factors, anatomy, other risk  
14 factors, whether or not I would choose that as my  
15 first choice -- first-line recommendation.

16 Q. Okay. Under what circumstances would you  
17 not recommend a midurethral sling as a first-line  
18 treatment option?

19 A. If a patient has a history of treatment for  
20 a urethral diverticulum or urethral fistula; if she  
21 has had a prior sling procedure with a synthetic  
22 material and has had problems with it or had it  
23 partially resected; if a patient has no evidence of  
24 urethral hypermobility on her examination; if a  
25 patient has significant voiding dysfunction or

1 elevated post-void residual; if a patient has mixed  
2 urinary incontinence with a primarily urge component  
3 more than a stress component. Those are typically the  
4 situations under which I would not suggest a  
5 midurethral sling.

6 Q. So if a patient came to you and had mixed  
7 urinary incontinence but their primary symptoms were  
8 more urge incontinence rather than stress urinary  
9 incontinence, you would not recommend a midurethral  
10 sling?

11 MS. WAHRENBERGER: Objection to the form of  
12 the question. You can answer.

13 THE WITNESS: I would not recommend that as  
14 my primary -- necessarily as my primary approach. I  
15 might discuss with them an option, but I wouldn't  
16 necessarily say that's, you know, the number one  
17 choice that I would end up doing right off the bat.

18 BY MR. GRAND:

19 Q. What would be your number one choice doing  
20 right off the bat?

21 MS. WAHRENBERGER: With urge incontinence?

22 THE WITNESS: If a patient had mixed  
23 incontinence with primarily a urge component, actually  
24 I would try to treat the urge incontinence and resolve  
25 that before I would even consider any type of surgical

1 intervention for the stress incontinence. As some  
2 patients, if you resolve the urge incontinence, the  
3 stress incontinence component is fairly minor and they  
4 may not choose any type of further treatment.

5 BY MR. GRAND:

6 Q. Can a midurethral sling worsen urge  
7 incontinence?

8 A. Yes, it can in some women.

9 Q. And when you make a recommendation to a  
10 patient for a surgical option to treat their stress  
11 urinary incontinence, you're weighing the risks and  
12 benefits of that procedure for that patient, correct?

13 A. Yes, for -- that's true for any surgical  
14 patient you're weighing risks and benefits.

15 Q. And when you recommend a mesh procedure  
16 as opposed to other surgical options, that is in  
17 your view because one mesh may be preferable for that  
18 patient than another, correct?

19 MS. WAHRENBERGER: Objection to the form of  
20 the question. You can answer.

21 BY MR. GRAND:

22 Q. Strike that. Let me re-ask it.

23 A. Yeah, I'm not sure I understood that.

24 Q. It was a poor question. I'll try to do  
25 better.

1                   When you recommend a mesh procedure to a  
2           patient as opposed to other surgical options, that's  
3           because in your view the mesh product is a better  
4           option for them than another surgical procedure,  
5           correct?

6                   MS. WAHRENBERGER: Objection to the form of  
7           the question. You can answer it.

8                   THE WITNESS: It's not necessarily that the  
9           mesh product is a better option. It's the overall  
10          surgical procedure is a better option for that patient  
11          versus perhaps the alternative procedures.

12                  BY MR. GRAND:

13                  Q. And when you implant a mesh device, you're  
14          not -- it is a procedure as well, correct?

15                  MS. WAHRENBERGER: Objection to the form of  
16          the question. You can answer.

17                  THE WITNESS: To implant a mesh device is a  
18          procedure. It is a surgery, yes.

19                  BY MR. GRAND:

20                  Q. And it's a procedure that is different  
21          because you're using mesh than other surgical  
22          procedures to correct stress urinary incontinence,  
23          correct?

24                  A. It is a different procedure for many  
25          reasons, including the fact that you are implanting a

1 mesh product, but that's not the only difference  
2 between those minimally invasive slings and other  
3 surgeries.

4 Q. Okay. Thank you. And if you were to  
5 recommend one mesh product to a patient over another  
6 mesh product, is that because you view one product as  
7 being more beneficial to that patient than the other?

8 MS. WAHRENBERGER: Objection to the form of  
9 the question. You can answer.

10 THE WITNESS: I would recommend one type of  
11 midurethral -- I may recommend -- let me think.

12 I don't necessarily recommend to a patient one  
13 type of midurethral sling over another type of  
14 midurethral sling. I choose to do one type of  
15 midurethral sling procedure because of the overall  
16 components involved with that procedure.

17 BY MR. GRAND:

18 Q. Is that another way of saying you prefer  
19 certain meshes to others?

20 MS. WAHRENBERGER: Objection to the form of  
21 the question.

22 THE WITNESS: Again, it's not just the mesh  
23 issue. There are other things about the device or the  
24 implantation that I might prefer from one type of  
25 procedure versus another, such as, you know, a

1 bottom-up versus a top-down procedure, a retropubic  
2 versus an obturator procedure, the size of trocars,  
3 the color of the mesh, the types of sheaths, I mean,  
4 the handle on the insertion needle. All of those I  
5 factor in for me when I am choosing a midurethral  
6 sling procedure.

7 BY MR. GRAND:

8 Q. Okay. And is that because the benefit/risk  
9 profile for one procedure may be better for a patient  
10 than for -- than another mesh procedure?

11 MS. WAHRENBERGER: Objection to the form of  
12 the question. You can answer.

13 THE WITNESS: I don't think the choice of  
14 which midurethral sling procedure I do is  
15 significantly affected by that component of whether  
16 this mesh is better than that mesh. I think it's more  
17 based on the totality of the procedure itself rather  
18 than on specifically the mesh as the driving force.

19 BY MR. GRAND:

20 Q. Do you view certain mesh products or  
21 procedures as being better than others for sexually  
22 active patients?

23 A. In my experience I typically prefer a  
24 retropubic midurethral sling versus a transobturator  
25 sling in someone who might be sexually active or

1 interested in future sexual activity.

2 Q. Do you view certain mesh products or  
3 procedures as being better for physically active  
4 patients?

5 A. I think that perhaps the same preference,  
6 as I just stated, that I would probably, again, prefer  
7 a retropubic approach versus a transobturator approach  
8 for someone who was physically active.

9 Q. Doctor, how many TVT Retropublics have you  
10 implanted?

11 A. I --

12 MS. WAHRENBERGER: Could I ask for  
13 clarification? Are you including Exact in that since  
14 it is a retropubic?

15 MR. GRAND: No. I'm including the TVT  
16 Retropubic which is at issue in this case.

17 MS. WAHRENBERGER: Okay.

18 THE WITNESS: I can't give you a specific  
19 number because that was -- it's been a number of years  
20 since I have. I tend to implant approximately a  
21 hundred plus midurethral slings per year myself, and  
22 in my overall practice of the three individuals we  
23 usually implant between three hundred and four hundred  
24 midurethral slings per year. In particular --

25 BY MR. GRAND:

1 Q. You say you each do? I'm sorry. I didn't  
2 mean to interrupt you.

3 A. No, our practice as a group of three of us  
4 usually implant between three hundred and four hundred  
5 midurethral sling procedures per year. One of my  
6 partners does pretty much exclusively retropubic  
7 slings based on his personal preference of the whole  
8 device and the handle and the needles, and one partner  
9 is more just, you know, TVT Exact. I mean, I think  
10 it's partially based on -- again, it's not just the  
11 mesh that you factor in in making your decision.

12 Q. Can you make an estimate as to how many TVT  
13 Retropublics you implanted in 2002?

14 A. In 2002 itself? No, I wouldn't have a  
15 clue. I would be just guessing.

16 Q. How about in 2003?

17 A. Again, that was a long enough time period  
18 ago that I can't give you the specifics of how many  
19 procedures I would have done at that point. I think  
20 that the transition for me of using midurethral slings  
21 as my primary treatment began in that 2002 to 2003  
22 time period.

23 Ultimately, after a couple years, I used  
24 midurethral slings fairly exclusively rather than  
25 Burch procedures or traditional suburethral slings.



1       So certainly by about 2004-ish, maybe 2004-2005, I  
2       probably was, you know, 99% of the incontinence  
3       procedures that I was doing at that time would have  
4       been midurethral slings. And during that time period  
5       the bulk of them at that point would have been  
6       probably the Retropubic TVT, if I recall exactly.

7               Q. Do you know how many of your -- of the  
8       patients in whom you've implanted TVT Retropublics have  
9       returned to you with erosions?

10              A. I have not seen any patient with an erosion  
11       from a TVT Retropubic that I've implanted. I've never  
12       had an erosion -- to me at least.

13              Q. Okay. And is that qualification based on  
14       the fact that there may be patients who have gone --  
15       who have sought treatment elsewhere?

16              A. Correct. They may have moved to Florida,  
17       which a lot of my patients do when they retire, or  
18       someplace else, but I have not received request of  
19       records from any physicians for -- that I've implanted  
20       the TVT Retropubic on -- can't recall any request of  
21       records that I would have received that would have,  
22       you know, indicated transfer of care. Again, that was  
23       a long time ago, so it's hard to remember  
24       specifically.

25              Q. And would that be true -- what about

1       dyspareunia? Do you know how many of your patients in  
2       whom you've implanted the TVT Retropubic have returned  
3       to you with dyspareunia?

4               A. I have seen a few patients who will present  
5       with dyspareunia. The majority of those patients have  
6       had concomitant other procedures done at the same time  
7       as the midurethral sling. And I certainly know that I  
8       have not had to go back and remove any -- any  
9       midurethral sling regardless of which product for pain  
10      or dyspareunia, none -- not that I have implanted.

11             Q. Have you had to remove a TVT-R that you've  
12      implanted for any other reason?

13             A. I have reoperated to release a TVT or  
14      midurethral sling in a small number of women because  
15      of, let's say, voiding difficulties, either slow  
16      stream or perhaps elevated post-void residuals. I  
17      have had that where I've primarily divided the sling  
18      rather than actually removed the sling.

19             Q. And how many times have you had to do that?

20             A. I have done that in 12 patients, although I  
21      can't give you the specifics of which exact sling they  
22      were. It's more likely -- yeah, I'm not sure which  
23      specific slings that they had done.

24             Q. How many Boston Scientific slings have you  
25      implanted over the years?

1 A. I don't know.

2 Q. Hundreds?

3 A. Yeah, probably hundreds, in that category.

4 Q. When was the last time you implanted a  
5 Boston Scientific sling?

6 A. Within the last two weeks or so.

7 Q. Do you track complications among patients  
8 in whom you've implanted the TVT Retropubic device?  
9 Strike that.

10 Do you track complications among any of your  
11 patients in whom you've implanted midurethral slings?

12 A. Yes.

13 Q. Do you keep a database?

14 A. I keep a record of those particular  
15 patients with these particular complications, yes.

16 Q. And in what manner is that kept? Is that  
17 kept, for example, on a spreadsheet or do you have a  
18 specific database?

19 A. That type of record is not -- I'm not so  
20 computer savvy, so it's actually the old-fashioned way  
21 on a piece of paper so -- that I keep a list of  
22 patients who I've had as -- if I've had an erosion, if  
23 I've had to return to the operating room for a release  
24 of a sling for voiding issues.

25 MR. GRAND: Okay. Counsel, we're going to

1 request a copy of that, omitting any patient specific  
2 -- patient identifying information.

3 MS. WAHRENBERGER: Please put it in  
4 writing.

5 THE WITNESS: I'm not sure how I can  
6 provide you that --

7 MS. WAHRENBERGER: We'll worry about that.

8 THE WITNESS: -- information without  
9 patient identification, but, okay.

10 MS. WAHRENBERGER: You make the request and  
11 we'll deal with it.

12 MR. GRAND: Your counsel --

13 BY MR. GRAND:

14 Q. Has defense counsel provided you with the  
15 names of any lawsuits in which you have been  
16 identified as either the implanting physician or the  
17 revising physician?

18 A. Yes.

19 Q. In that list was it identified for you in  
20 which cases you were the identifying -- whether you  
21 were the implanting physician or the revising  
22 physician?

23 A. The list did not identify which role I had,  
24 no.

25 Q. Okay. How many cases were on that list?

1           A. I received a list of two different -- two  
2           different lists, and the total number of patients on  
3           the list are 15.

4           Q. And when you say "two different lists,"  
5           what was the difference between the lists?

6           A. I was told that one was New Jersey and one  
7           was West Virginia.

8           Q. Okay. And the total between both lists was  
9           15?

10          A. Yes.

11          Q. And when you received this list, did you go  
12          look in your own records to see what, if any, of  
13          those -- if any of those claimants were patients in  
14          whom you had implanted an Ethicon device?

15          A. Yes.

16          Q. And how many of those patients -- how many  
17          of those claimants were ones in which you had  
18          implanted the device?

19          A. Well, there are different Ethicon devices,  
20          so that's going to make a difference. There were two  
21          out of the 13 that I did not implant; I was the person  
22          that reoperated --

23          Q. Revised?

24          A. Revised, thank you, I was trying to think  
25          of the word. -- revised the surgery, so two I know

1 for that. There were either two or three on the list  
2 that are Prolift patients. There are a number of them  
3 on the list who are sacrocolpopexy patients where I  
4 believe the mesh that was used was probably either a  
5 straight Prolene mesh years and years ago or a  
6 Gynemesh type of product, but they did not receive a  
7 midurethral sling or Prolift.

8 I think there were either four or five patients  
9 on the list who had received midurethral slings. I  
10 have not had time, since I just received the list  
11 recently, to determine which sling product was  
12 implanted.

13 Q. Thank you. With respect to -- strike that.

14 Did you ever receive any training from Ethicon  
15 with respect to implanting the TVT Retropubic?

16 A. No, I did not specifically from Ethicon.

17 Q. Who did you receive training from with  
18 respect to implanting the TVT-R?

19 A. My partner had been implanting the device  
20 for at least a year or more, and he and I scrubbed in  
21 the beginning together when I was doing my cases.

22 Q. And what's your partner's name?

23 A. Jeffrey Wellgoss.

24 Q. And so -- I just want to make sure I heard  
25 you correctly. Did you observe him do the procedure

1 or did you participate in doing the procedure with  
2 him?

3 A. Actually both, first observing him do the  
4 procedure, and then subsequently doing it with him  
5 with the two of us scrubbed together and watching how  
6 he did it, having him, you know, recommend how I would  
7 do it, yes.

8 Q. Okay. And did you do that more than once with  
9 him?

10 A. Yes.

11 MS. WAHRENBERGER: Objection.

12 THE WITNESS: Yes.

13 BY MR. GRAND:

14 Q. Okay. How many times did you observe or  
15 participate with him in doing a procedure before you  
16 did one yourself?

17 A. It was less than -- somewhere between  
18 probably three to five. I don't recall specifically.  
19 Again, it was a long time ago.

20 Q. At the time that you first implanted a  
21 TVT-R -- sorry, TVT Retropubic -- would you -- did you  
22 consider yourself to be an experienced pelvic floor  
23 surgeon?

24 A. Yes, I did at that time, yes. Still do.

25 Q. I wasn't questioning your experience,

1 doctor.

2 MS. WAHRENBERGER: Yes, you were.

3 MR. GRAND: Not at all, and I don't  
4 appreciate the comments, counsel.

5 MS. WAHRENBERGER: It's just what the  
6 question was. That's all right.

7 MR. GRAND: I asked her if at the time she  
8 considered herself one.

9 BY MR. GRAND:

10 Q. This is going back to 2003, correct?

11 A. Correct.

12 Q. Okay. Do you believe there is a learning  
13 curve associated with implanting the TVT Retropubic?

14 A. I think there's a learning curve with any  
15 surgical procedure, including that, yes.

16 Q. How many times did you need to perform the  
17 procedure before you felt proficient at it?

18 A. For me, I don't think that it took very  
19 many procedures before I felt comfortable in part  
20 because I had been doing sling procedures and needle  
21 suspension procedures for over 15 years previously, so  
22 that the dissection, the retropubic space and the  
23 passage of the instruments, tensioning of the sling,  
24 et cetera, was something that I was quite familiar  
25 with.



1 Q. Okay. Thank you. With respect to  
2 synthetic midurethral slings, was the TVT Retropubic  
3 the first one you had used?

4 A. The first synthetic midurethral sling, yes,  
5 not the first synthetic sling.

6 Q. Okay. Thank you.

7 MR. GRAND: Let's mark as Exhibit 2 your  
8 Expert General Report dated July 9, 2014.

9 (Exhibit 2 was marked for identification.)

10 MS. WAHRENBERGER: Before we start on that,  
11 may I take a quick break?

12 MR. GRAND: Absolutely. Why don't we take  
13 a ten-minute break.

14 VIDEO SPECIALIST: The time now is 11:18.  
15 We're going off the record. This is the end of disc  
16 1.

17 (Proceedings recessed.)

18 VIDEO SPECIALIST: The time now is 11:35.  
19 We are back on the record. This is the beginning of  
20 disc 2.

21 BY MR. GRAND:

22 Q. Doctor, I believe before the break you were  
23 given what's been marked as Exhibit 2, which is your  
24 general report dated July 9th, 2014, correct?

25 A. Correct.

1 Q. When did you first begin working on this  
2 report?

3 A. Approximately a year prior to that time  
4 period.

5 Q. So roughly July 2013?

6 A. July, August, something around there, yes.

7 Q. And how many hours did you spend preparing  
8 this report?

9 A. The total number of hours is probably  
10 60-ish or so.

11 Q. And what was your hourly rate for preparing  
12 your report?

13 A. I charge \$500 an hour.

14 Q. And I'd like you to have what's marked as  
15 Exhibit 3 the December 15th, 2015 supplemental report  
16 that you prepared.

17 (Exhibit 3 was marked for identification.)

18 BY MR. GRAND:

19 Q. Do you see that?

20 A. Yes, I have it.

21 Q. Okay. And when did you begin working on  
22 that report, the report you now have in front of you  
23 dated December 15th?

24 A. It was probably three or so weeks ago,  
25 right around Thanksgiving.

1 Q. And how many hours would you say you spent  
2 preparing this report?

3 A. That one I can pretty much tell you -- 48  
4 hours.

5 Q. And that's at the same rate of \$500 per  
6 hour?

7 A. Yes.

8 Q. Doctor, in your report you've offered  
9 opinions about the risk/benefit profiles of the TVT  
10 Retropubic, correct?

11 A. Yes.

12 Q. Would you agree with me that for you to  
13 offer a valid opinion about the risk/benefit profile  
14 for the TVT Retropubic that you need to be familiar  
15 with each of the risks of the product?

16 MS. WAHRENBERGER: Objection, but you can  
17 answer.

18 THE WITNESS: Each of the, yeah, each of  
19 the significant or relevant risks, yes.

20 BY MR. GRAND:

21 Q. What do you mean by "relevant risks"?

22 A. I think that the risks that would be  
23 applicable to my decision as a clinician of whether or  
24 not this was a procedure that I wanted to offer and  
25 essentially do for my patients.

1 Q. Are there risks of the TVT Retropubic that  
2 you think are not relevant to that consideration?

3 A. I think there are risks that have been  
4 alleged in the plaintiff's experts' reports that I  
5 don't think are relevant risks in making my decision.

6 Q. To decide whether the risks are relevant or  
7 irrelevant, would you need to be familiar with those  
8 risks?

9 MS. WAHRENBARGER: Objection to the form of  
10 the question.

11 THE WITNESS: Yes, I would expect that's  
12 the case, yes.

13 BY MR. GRAND:

14 Q. In your report you've also expressed  
15 opinions about the adequacy of the warnings for the  
16 TVT Retropubic, correct?

17 A. Yes.

18 Q. Have you offered warnings opinions in  
19 litigation before?

20 A. Not that I can recall. Okay. Just making  
21 sure I understand your question. Have I offered  
22 testimony about the, whatever, appropriateness of  
23 written warnings in -- in testimony before; is that  
24 what you're asking?

25 Q. Yes.

1           A. Not relative to a product but relative to  
2           consents.

3           Q. You're talking about the consent process in  
4           MedMal cases that you've testified in?

5           A. Yes, that's a written warning or a  
6           discussion regarding warnings, risks of the  
7           procedures.

8           Q. Okay. Have you ever offered warning  
9           opinions in connection with drugs or medical devices  
10          in litigation before?

11          A. Yes, I have, relative to the Prolift in my  
12          prior two depositions.

13          Q. Have you testified in court concerning the  
14          adequacy of warnings for the Prolift?

15          A. No. As I said, I've not -- both cases have  
16          settled, so I have not been in court.

17          Q. Do you know whether the judges in those  
18          cases determined whether you were qualified to give  
19          such opinions?

20          A. I don't know that.

21          Q. In formulating your warnings opinions in  
22          this case what standards did you apply?

23          A. I applied the clinical standards for  
24          determining -- determining how much information is  
25          necessary or not necessary in a written document

1           versus the current information that was in the medical  
2           literature regarding the potential complications of  
3           incontinent surgeries with or without the use of other  
4           synthetic mesh materials.

5                   Q.   Okay.   Whose clinical standards were those?

6                   A.   Those are the clinical standards based on  
7           my position in national organizations of having  
8           written guidelines for education and training.   Those  
9           are based on my work with having been recognized as an  
10          expert by the American Board of Ob/Gyn, The American  
11          College of Obstetrics and Gynecology, the NIH, The  
12          American Urogynecologic Association, and -- so, yeah,  
13          I think that -- it's that type of expertise.

14                  Q.   Okay.   So I didn't ask expertise.   I'm  
15          asking about standards, doctor.   Did you apply your  
16          own personal standards in deciding whether the  
17          labeling was adequate?

18                   MS. WAHRENBERGER:   Objection, asked and  
19          answered.

20                  THE WITNESS:   I applied --

21          BY MR. GRAND:

22                  Q.   You can answer.

23                  A.   I applied what I believed to be the  
24          clinical medical standards in the community -- in the  
25          medical community for our field.

1 Q. Okay. Are those published anywhere?

2 A. No.

3 Q. Did you consult any published standards  
4 in formulating your warnings opinions?

5 A. No.

6 Q. Did you consult any FDA guidance documents  
7 with respect to warnings for medical devices?

8 A. No.

9 Q. Did you look at any Ethicon internal  
10 standards for warnings on medical devices?

11 A. No.

12 Q. Did you review any testimony from Ethicon  
13 employees who had labeling responsibilities for the  
14 TVT?

15 A. I've seen some internal documents and/or  
16 email things going back and forth, but I don't know  
17 that I've specifically seen deposition testimony  
18 regarding Ethicon employees.

19 Q. Have you consulted with any drug or device  
20 company on product labeling for their products?

21 A. For product labeling? No.

22 Q. Have you ever been asked by a regulatory  
23 agency to consult with them on product or device  
24 labeling?

25 A. I know that I had at one point done some

1 work with the FDA regarding device issues, but I can't  
2 recall whether that part is -- was specifically part  
3 of it or not, and it was a long time ago.

4 Q. Do you remember the name of the device that  
5 was involved?

6 A. I don't know whether it was when we were  
7 evaluating Miniguard or one of the bladder neck  
8 prosthesis or whether it was something even outside  
9 of, you know, urogynecology. I seem to remember  
10 something; I just can't tell you the specifics.

11 Q. Did you consult any industry standards for  
12 medical device labeling?

13 A. No, I did not.

14 Q. Is your opinion regarding the adequacy of  
15 the labeling for the TVT Retropubic based on what you  
16 believe would be adequate in your own medical practice  
17 based on your own experience?

18 MS. WAHRENBERGER: Objection to the form of  
19 the question.

20 THE WITNESS: No.

21 BY MR. GRAND:

22 Q. You can answer.

23 What else did you base the adequacy -- what  
24 else did you base your opinions on regarding the  
25 adequacy of the TVT Retropubic labeling?



1 MS. WAHRENBERGER: Objection, asked and  
2 answered.

3 THE WITNESS: I think -- I think I have  
4 answered that, but the -- one aspect of the IFU states  
5 that physicians who are using this product or device  
6 to do a surgical procedure for stress incontinence  
7 specifically specifies that the implanting physician  
8 has experience, familiarity, understands the issues  
9 involved with the treatment of stress incontinence  
10 surgically and the issues involved with the use of a  
11 synthetic mesh product, and based on the literature  
12 that was available prior to -- at the time where the  
13 TVT Retropubic was being marketed or put out,  
14 essentially all of the risk issues that are involved  
15 with the TVT Retropubic were already known risk  
16 factors for either surgeries for stress incontinence  
17 with or without the use of a synthetic mesh.

18 Therefore, the physician who is implanting  
19 this, to be appropriately doing that surgery and  
20 especially having the expertise and treating stress  
21 incontinence and using mesh, would have been  
22 familiar -- even if they had never read a single  
23 portion of the IFU -- would have been familiar with  
24 those risks that were outlined in the original IFU or  
25 that the plaintiff's experts have said should have

1           been included in the IFU.

2                   Q.   Okay.  Is -- are your warnings opinions  
3           in this case based on an assumption about what other  
4           doctors should have known?

5                   MS. WAHRENBERGER:  Objection to the form of  
6           the question.

7                   THE WITNESS:  Well, it's not -- I mean, the  
8           issue is your -- I mean, I obviously can't determine  
9           what is in someone's brain, but if you are implanting  
10          a mesh device and you're doing an incontinent surgery,  
11          then you shouldn't really be doing it unless you know  
12          those risks going in even based on the literature that  
13          was already out there that detailed the risks.

14                  There isn't anything specifically different for  
15          the midurethral sling or the TVT Retropubic risks that  
16          had not already been addressed in the medical  
17          literature regarding stress incontinence surgery or  
18          mesh use.

19          BY MR. GRAND:

20                  Q.   What about contraction as a result of the  
21          mesh?

22                  A.   That was known in the literature from prior  
23          synthetic urethral slings -- prior synthetic  
24          suburethral slings that have been done starting in the  
25          early 1960s.

1 Q. Okay. So your warnings are premised on an  
2 assumption that all doctors would have been aware of  
3 all the literature out there, correct?

4 MS. WAHRENBERGER: Objection.

5 THE WITNESS: Again, the issue is that -- I  
6 mean, it's sort of -- somewhat of a ridiculous  
7 question in that the surgeon who is implanting this  
8 has to have the understanding and expertise of doing  
9 the surgery; otherwise, they shouldn't really be doing  
10 the surgery.

11 So that's not my position nor Ethicon's nor,  
12 you know, anyone else's position to tell the physician  
13 yes or no, you have the knowledge base. I mean,  
14 there's not a checklist that you have to go through  
15 saying do you know this, do you know this, do you know  
16 this before you can actually do an operation. That's  
17 dependent upon the individual physician making the  
18 personal assessment that they do or do not have that  
19 information.

20 And I don't think that it is the obligation of  
21 a company to ensure that the physician has that  
22 knowledge base to go forward with the surgery. That's  
23 really the role of a credentialing body of a hospital  
24 or a certification body for board certification. It's  
25 not the criteria of a company.

1 Q. Do you believe the company has an  
2 obligation to ensure that doctors are aware of all  
3 risks associated with the product and the procedure?

4 A. I think that the company has a  
5 responsibility to inform physicians of any risk that  
6 is a new or different risk than what is already out  
7 there in the literature regarding similar situations  
8 or similar procedures or materials.

9 Q. Okay. And that opinion is based on a  
10 premise that doctors have knowledge of what's out  
11 there in all the literature, correct?

12 MS. WAHRENBARGER: Objection to the form.

13 THE WITNESS: Again, you should not -- the  
14 doctors, if they are doing the procedure, shouldn't be  
15 doing the procedure if they don't have a knowledge  
16 about the literature and the data regarding the use of  
17 synthetic materials in pelvic reconstructive surgery.  
18 I'm not sure how I can answer the question any  
19 differently.

20 BY MR. GRAND:

21 Q. No, that's fine. Thank you.

22 Do you have opinions regarding the adequacy of  
23 the warnings contained in the TVT Retropubic patient  
24 brochures?

25 A. My determination about -- yes, I have an

1 opinion.

2 Q. Which brochures did you review?

3 A. I reviewed from the earliest ones up until  
4 the actually current one that is on the website at  
5 this particular time.

6 Q. You have not reviewed Mrs. Corbet's medical  
7 files, correct?

8 A. Not her entire medical files, no.

9 Q. You've reviewed some of her medical file?

10 A. Not the medical record itself. I've  
11 reviewed expert -- an expert report by Dr. Rosenzweig  
12 regarding her medical history and his IME.

13 Q. You're not intending to offer opinions  
14 specific to the Corbet case, are you?

15 A. I don't believe so.

16 Q. Do you understand that you haven't been  
17 offered as an expert in this case on the specifics of  
18 Kathryn Corbet's medical treatment, correct?

19 A. That's -- yes, that's why I said I believe  
20 so, I'm not going to be offering those opinions.

21 Q. And you don't know if Kathryn Corbet ever  
22 read a patient brochure, do you?

23 A. No, I do not.

24 Q. And you certainly -- if she did, you don't  
25 know which one she read, correct?

1 A. Correct.

2 Q. Do you have any knowledge as to the  
3 agreements between Ethicon and Professor Olmsted and  
4 his company?

5 A. I have not seen the agreement, no.

6 Q. Okay. Do you know any of the details of  
7 that interaction?

8 A. Only from, you know, very peripherally,  
9 that there was a relationship in the development and  
10 design of the TVT Retropubic.

11 Q. Do you intend to offer any opinions at  
12 trial on that agreement?

13 MS. WAHRENBERGER: Objection to the form of  
14 the question.

15 THE WITNESS: I don't think so.

16 BY MR. GRAND:

17 Q. You don't discuss that in your report at  
18 all, do you?

19 A. No.

20 Q. Okay. Have you been involved in any  
21 Ethicon clinical studies for any of its mesh products?

22 A. No.

23 Q. Are you familiar with the concept of  
24 financial bias in a clinical trial?

25 A. I'm familiar with the terminology, yes.

1 Q. What does financial bias in the context of  
2 the clinical trial mean to you?

3 A. Financial biased to me means that the  
4 researchers either conduct the trial or report the  
5 results of the trial in such a way that distorts/  
6 changes the actual results to something different than  
7 what they actually are.

8 Q. Would you agree that, if there is a  
9 potential for financial bias, that it should be  
10 disclosed in the published article for that trial?

11 MS. WAHRENBERGER: Objection to the form of  
12 the question. You can answer.

13 THE WITNESS: I think that the need to  
14 disclose any financial relationship is set out by  
15 that -- the individual journal or publication  
16 regarding the requirements for publishing in that  
17 particular journal, and those need to be adhered to.

18 BY MR. GRAND:

19 Q. Okay. Independent of whether the journal  
20 has any rules regarding that, do you think that a  
21 researcher should disclose any potential conflicts of  
22 interest in an article that they are publishing?

23 MS. WAHRENBERGER: Objection to the form of  
24 the question. You can answer.

25 THE WITNESS: I think that the approach to

1           that in the medical literature has changed  
2           significantly over the last two decades or so. A  
3           decade or two ago the issues of financial disclosure  
4           was typically not something that was done and/or  
5           stressed. I think, as the last years have gone by,  
6           that there has been more focus on ensuring that  
7           researchers or even speakers list any financial  
8           relationship that they have with a company.

9           BY MR. GRAND:

10                   Q. In forming your opinions about the risks  
11                   and benefits of the TVT Retropubic did you review and  
12                   consider Ethicon -- the testimony of Ethicon  
13                   employees?

14                   A. I did not consider the testimony of the  
15                   Ethicon employees.

16                   Q. Why not?

17                   A. Because my decision regarding the clinical  
18                   risks and benefits for any particular device or  
19                   product that I use is based on the information  
20                   provided in the peer-reviewed scientific literature  
21                   and not based on company documents.

22                   Q. Do you think Ethicon has a greater  
23                   knowledge base about the risks and benefits of the TVT  
24                   higher than you?

25                   A. Than me per se? Possibly.



1 Q. Do you think Ethicon would have had  
2 relevant information to the risks and benefits of the  
3 TVT Retropubic that you did not have access to?

4 MS. WAHRENBERGER: Are we talking a  
5 specific time frame?

6 THE WITNESS: Yeah, I'm -- I'm not -- can  
7 you rephrase that question? I'm sorry.

8 BY MR. GRAND:

9 Q. Doctor, you would agree that Ethicon has  
10 greater access to information about the TVT Retropubic  
11 than you do, correct?

12 MS. WAHRENBERGER: Objection to the form of  
13 the question.

14 THE WITNESS: I think that that is probably  
15 true for any device that any physician uses in any  
16 field when they are operating versus the company  
17 itself.

18 BY MR. GRAND:

19 Q. Okay. So information, internal  
20 information, that Ethicon had relating to the TVT  
21 Retropubic would be relevant to your evaluation,  
22 wouldn't it?

23 MS. WAHRENBERGER: Objection to the form of  
24 the question.

25 THE WITNESS: I would have to see that --

1           that information to determine whether I think it is  
2           relevant or not.

3           BY MR. GRAND:

4                   Q. Did you ask to see any internal Ethicon  
5           information relating to the TVT Retropubic?

6                   A. I don't recall that I asked specifically  
7           for those documents, as, again, I'm making a decision  
8           and my expertise in the clinical use and the clinical  
9           risk/benefit profile of the particular surgery and  
10          device.

11                  Q. So the testimony of Ethicon employees on  
12          this issue is not important to you, correct?

13                  MS. WAHRENBERGER: Objection to the form of  
14          the question.

15                  THE WITNESS: I think that the information  
16          provided in the peer-reviewed literature regarding the  
17          risks and benefits of what has been documented by  
18          multiple different investigators, multiple different  
19          sites over multiple different time periods and  
20          research projects are more important. Those are what  
21          I'm -- more important than what would per se be from  
22          Ethicon employee testimony, and that's the decision --  
23          or that's the information I would use to make my  
24          decision as a clinician.

25          BY MR. GRAND:

1 Q. Okay. You don't actually know whether it's  
2 more important because you didn't review Ethicon  
3 testimony, correct?

4 A. I think that it would be very unlikely that  
5 there would be anything within the Ethicon testimony  
6 that would alter my decision-making regarding the  
7 risks and benefits of this particular procedure.

8 Q. And is the same true of internal Ethicon  
9 documents?

10 A. Yes.

11 Q. Doctor, in your report you've referenced  
12 the term "Gold Standard," correct?

13 A. Yes.

14 Q. Okay. That's not a medical term, correct?

15 A. Actually it's a term used quite frequently  
16 in the medical community.

17 Q. Do you know the origin of that term?

18 A. No, not specifically.

19 Q. Okay. Can you think of medical procedures  
20 that were once considered the gold standard that are  
21 no longer considered the gold standard today?

22 A. Yes.

23 Q. There are several, correct?

24 A. Yes.

25 Q. Doctor, we've marked as Exhibit 4 to your

1 deposition a document entitled "Updated Exhibit B to  
2 the General TVT Report."

3 (Exhibit 4 was marked for identification.)

4 BY MR. GRAND:

5 Q. Do you recognize this document?

6 A. No.

7 Q. You've never seen this document before?

8 A. No.

9 Q. Can you turn to the inside page, I guess  
10 the second page? I don't know if yours -- mine is  
11 double-sided. Do you see it says "Nicolette Horbach  
12 Reliance List"? Do you see that?

13 A. Yes.

14 Q. You've never seen this document before?

15 A. Not in and of itself, no.

16 Q. You can set it aside. Thank you.

17 Doctor, you drafted your own report, correct?

18 A. Yes.

19 Q. Okay. And is it fair to say that if I want  
20 to -- if I wanted to know the materials you relied  
21 upon in formulating your opinions, that they would be  
22 contained within the body of your expert report?

23 A. Most likely, yes. I think, yes, most  
24 likely. I mean, there is a lot of other material  
25 obviously over -- because of my training, education,

1           what I see on a day-to-day basis that I used in  
2           generating my report that isn't necessarily  
3           specifically referenced in that area in the report.

4                   Q.   Okay.  I think I understand what you're  
5           saying.  Other than your own experience and education,  
6           is there anything you've relied upon in formulating  
7           your opinions other than the documents cited in the  
8           body of your report?

9                   MS. WAHRENBERGER:  Objection to the form of  
10          the question.

11                  THE WITNESS:  Yes.  The studies and  
12          documents specifically cited in the report were cited  
13          to refer to, let's say, specific statistics or numbers  
14          that I was quoting in the report.  There are other  
15          studies that I have read over the years and/or more  
16          recently that helps to frame my perspective that I may  
17          not have specifically cited that particular statistic  
18          in my report and reference that particular article.

19                  Some of that may be listed in this gigantic  
20          list here of reliance issues (indicating), and there  
21          were some additional references that I -- or a list of  
22          references that I had printed up last night that  
23          involved things that even I had pulled up in the last  
24          week or so as I was reviewing -- or maybe two weeks or  
25          so.

1 Q. Okay. Doctor, do you understand one of the  
2 purposes of a deposition is that I need to understand  
3 what your opinions are and what you've relied upon in  
4 formulating those opinions? Do you understand that?

5 A. Yes, I do.

6 Q. Okay. Now you've just told me that Exhibit  
7 4, which purports to be your reliance list for your  
8 expert report, you've never seen before, correct?

9 A. I said that I've never seen it compiled in  
10 such a fashion, that whole compilation in such a  
11 fashion. I have not seen this specific printout, no.  
12 That doesn't mean --

13 Q. Okay. If I want to know -- I don't mean to  
14 interrupt you, doctor. Are you done?

15 A. Yes.

16 Q. Okay. If I want to know what you've relied  
17 upon in formulating your opinions, where am I going to  
18 find that material?

19 A. Either in this (indicating) --

20 MS. WAHRENBERGER: Referring to Exhibit 4.

21 THE WITNESS: Sorry, Exhibit 4, in the  
22 report itself, or in the list of additional  
23 references, which may be duplicate. Actually there  
24 may be some overlap that I have here, that I brought  
25 with me today.

1 BY MR. GRAND:

2 Q. Okay. Is that -- has that list been  
3 produced on the thumb drive?

4 MS. WAHRENBERGER: No, it has not. It was  
5 brought today by Dr. Horbach to this deposition.

6 MR. GRAND: Okay. I would ask counsel if  
7 you could make a copy of that list for me and email it  
8 to me?

9 MS. WAHRENBERGER: Sure.

10 THE WITNESS: Alternatively, I can, yeah,  
11 email it to -- I can just email the list to them and  
12 they can forward it to you.

13 MS. WAHRENBERGER: Do you want it right  
14 now?

15 MR. GRAND: Yes. We can do it during a  
16 break perhaps.

17 MS. WAHRENBERGER: Okay. During the lunch  
18 break, yeah.

19 THE WITNESS: Yeah, if I can just -- if I  
20 can get on the Internet, I'll email it wherever you  
21 want.

22 BY MR. GRAND:

23 Q. I would rather have a copy of the list  
24 you've brought with you.

25 A. Sure. We can fax it.

1 MS. WAHRENBERGER: Yeah.

2 BY MR. GRAND:

3 Q. Now, doctor --

4 MS. WAHRENBERGER: Jeff, give me your fax  
5 number, and we'll see if we can get the law firm to  
6 fax it when we take a break.

7 MR. GRAND: It's 212-584-0799.

8 MS. WAHRENBERGER: Okie-doke.

9 MR. GRAND: Thank you. I appreciate it.

10 BY MR. GRAND:

11 Q. Doctor, if you could -- I'm referring to  
12 Exhibit 4. If you look through this list, would you  
13 agree with me that a large number of the materials on  
14 this list relate to the Prolift product and not the  
15 TVT?

16 A. I would have to start looking through it  
17 here to be able to answer that for you.

18 Q. I apologize, doctor. The document is not  
19 paginated in any way, so it's difficult for me to  
20 point you to a specific page.

21 A. Since it's done alphabetically, you could  
22 ask me to look alphabetically. I mean, I see that  
23 there are references here for prolapse as well as for  
24 urinary incontinence.

25 It is my understanding that this list involves



1 all of the documents that have been forwarded to me at  
2 one time or the other from the defense attorneys.

3 Q. Okay. And that would be going back as far  
4 as 2012, correct?

5 A. It is -- that's potentially the case, yes.  
6 I mean, I don't know what specific criteria they chose  
7 versus just the entire list of everything. Some of  
8 this I have read, not read, as I felt appropriate.

9 Q. Okay. And is it fair to say that -- well,  
10 let's sort of break this down into categories. The  
11 first part of the list contains medical literature,  
12 correct?

13 A. That it appears, yes, correct.

14 Q. And to make it easier for you, if you look  
15 at the heading underneath your name, as you go through  
16 the list, it shows the category of document. Do you  
17 see that?

18 MS. WAHRENBARGER: Referring to up here.

19 BY MR. GRAND:

20 Q. Most of the list is comprised of medical  
21 literature.

22 A. Okay. Yes. Thank you.

23 Q. Okay? Now, with respect to the medical  
24 literature, did you collect this medical literature  
25 yourself?

1           A. This is a list of medical literature that  
2           was forwarded to me, as I mentioned, from the defense  
3           attorneys. Some of these would duplicate articles  
4           that I have pulled myself in my own independent  
5           research.

6           Q. Okay. So with respect to the TVT product,  
7           the TVT Retropubic, how did you identify medical  
8           literature?

9           MS. WAHRENBERGER: Objection to the form of  
10          the question.

11          MR. GRAND: Excuse me. I'll rephrase it.

12          BY MR. GRAND:

13          Q. With respect to the TVT Retropubic, how did  
14          you identify medical literature relevant to your  
15          opinions in this case?

16          A. That is -- there's a lot of -- that's a  
17          long process. I have reviewed or identified medical  
18          literature based on several different ways or  
19          techniques. One is based on studies that I know have  
20          been published in the literature because I've read  
21          them, you know, previously over the years as they have  
22          come out, some of which were obviously sentinel  
23          studies.

24          Some of the literature that I pulled was based  
25          on specific references made in certain articles to

1 further data or other discussions that might be  
2 similar to the article that I've just reviewed. Some  
3 of the information I pulled that I use based on a  
4 fairly extensive review that I did of the topic and  
5 the literature in preparation for taking my  
6 subspecialty board certification.

7 Some of it is based on going back and pulling  
8 articles that the plaintiff's expert has referenced,  
9 to go over those articles and any other articles  
10 perhaps cited in that as support. Some of it is  
11 involving a lot of time at the computer on PubMed  
12 researching based on specific topics, whether it was  
13 complications, issues related to reoperation for  
14 midurethral slings versus other surgeries, searching  
15 out mesh, mesh risk issues, you know, degradation  
16 issues, the carcinogen issues, and searching those on  
17 PubMed, searching by specific potential complications,  
18 whether it's hematoma, dyspareunia, searching based on  
19 chronic pain conditions in postoperative patients,  
20 searching based on hernias, hernia meshes and some of  
21 that literature.

22 I think there's obviously more that I'm -- but,  
23 yeah, it's a fairly extensive amount of time in the  
24 library.

25 Q. You testified earlier that you spent

1 approximately 60 hours preparing your general report.  
2 How much of that time was devoted to research? How  
3 much time was devoted to identifying and reading  
4 medical literature?

5 A. Probably at least two-thirds or so. I had  
6 also, as I said, I just sat for my boards not too long  
7 before that, so I had a fairly extensive collection of  
8 literature already that I had accumulated and pulled  
9 for that. So sometimes it was re-reviewing articles  
10 and data rather than having to pull new articles and  
11 data.

12 Q. And the medical literature that you  
13 actually discuss in the body of your report, did you  
14 read all those articles carefully?

15 A. Yes, I believe I read them carefully.

16 Q. Do you believe you summarized them fairly  
17 and accurately in your report?

18 A. Yes, I believe I did.

19 Q. And if the medical literature conflicts  
20 with your opinions in this case, you would want to see  
21 it, correct?

22 A. I think that I have -- I have still  
23 reviewed medical literature that does conflict in my  
24 opinion -- I have reviewed medical literature that  
25 states an opinion different than perhaps I have, yes,

1 I have reviewed that.

2 Q. And to the extent that there is literature  
3 out there that conflicts with your opinion, you would  
4 want to see it, correct?

5 A. Yes, I would want to see it. I think I  
6 certainly have seen it, yes.

7 Q. Okay. Do you consider yourself to be an  
8 expert with regards to materials science or on the  
9 mesh material that's used in the TVT Retropubic?

10 A. I consider myself an expert in terms of its  
11 clinical use as an implanting physician and the  
12 subsequent manifestation in the patients clinically,  
13 yes.

14 Q. So you're saying you hold yourself out to  
15 be a materials science expert?

16 MS. WAHRENBERGER: Objection.

17 THE WITNESS: That's not what I said. I  
18 said --

19 BY MR. GRAND:

20 Q. No, I'm trying to understand what you said.  
21 I asked you if you hold yourself out to be a materials  
22 science expert.

23 MS. WAHRENBERGER: And she responded.

24 BY MR. GRAND:

25 Q. Okay. You can answer the question.

1           A. I hold myself as a clinical expert in using  
2           a material in mesh within a clinical setting, not in  
3           the, necessarily, the biochemistry, shall we say, of  
4           materials.

5           Q. Okay. Thank you. In your report you  
6           discuss a number of professional society papers and  
7           opinions, correct?

8           A. Yes, I do.

9           Q. Did you read the references cited in those  
10          papers?

11          MS. WAHRENBERGER: Objection to the form of  
12          the question.

13          THE WITNESS: Can you be more specific?

14          Did I look --

15          BY MR. GRAND:

16          Q. Well, many -- let me ask you a different  
17          question. Make it a little bit easier.

18          The society papers you discuss in your report,  
19          they contain references to various studies, do they  
20          not?

21          A. Yes, they do.

22          Q. Did you read the studies that were cited in  
23          those reports, in the professional society papers?

24          MS. WAHRENBERGER: Objection to the form of  
25          the question.

1 THE WITNESS: I believe that I have read  
2 the bulk of them. There might be one that I couldn't  
3 get access to, you know, in our medical library.  
4 There are certain journals that are difficult for us  
5 to get the full article, access to, but I think that  
6 the bulk of them I probably did, yes.

7 BY MR. GRAND:

8 Q. Okay. Did you satisfy yourself that the  
9 references in the society papers were actually  
10 supported -- that the references cited in the society  
11 papers actually support the statements contained in  
12 the society papers?

13 A. I think -- I can't answer that without you  
14 asking me specifically what statement and what  
15 reference.

16 Q. I'm not asking you about a specific  
17 statement or reference. I'm asking you about your  
18 process. You've cited a number of professional  
19 society papers in your report, correct?

20 A. Yes.

21 Q. Okay. Those papers contain references to  
22 studies, correct?

23 A. Yes.

24 Q. Did you review the underlying studies that  
25 are cited in those papers?

1 MS. WAHRENBERGER: Asked and answered.

2 THE WITNESS: As I said, I believe that I  
3 read the bulk of them, yes.

4 BY MR. GRAND:

5 Q. Okay. Is de novo urge incontinence a risk  
6 associated with the TVT Retropubic?

7 A. Yes.

8 Q. Is worsening urge incontinence a risk  
9 associated with the TVT Retropubic?

10 A. Yes.

11 Q. In your view what causes a mesh exposure?

12 A. I think that there are multiple factors  
13 that are associated with a mesh exposure. Do you want  
14 me -- I assume you want me to -- okay.

15 Q. Yes, please. Thank you.

16 A. Sorry. I think that there is -- there are  
17 issues that are patient-centered or patient-related, I  
18 think there are issues that are surgeon-related, and I  
19 think that there are issues that are material-related.

20 Q. Okay. Let's start with the issues that are  
21 patient-related. Could you describe those for me,  
22 please?

23 A. The -- there are aspects of a patient's  
24 either medical history, medical condition or tissues,  
25 surgical history, that will affect the quality of the



1 tissue in the vaginal area where we are operating.  
2 Those have been shown in the medical literature and  
3 can include issues related to a history of smoking, a  
4 history of diabetes. Obesity has been shown in some,  
5 not shown in other aspects of a risk factor. Age has  
6 been shown to be a risk factor. Prior surgery, prior,  
7 let's say, incontinence or prolapse surgery in the  
8 area. Vaginal atrophy, I guess the quality of the  
9 tissue has been shown. I don't remember if I already  
10 said smoking.

11 MS. WAHRENBERGER: You did.

12 THE WITNESS: Okay. Use of medications  
13 that might affect tissue healing, such as steroid  
14 medications, may also factor -- be a patient-related  
15 factor for mesh exposure.

16 BY MR. GRAND:

17 Q. And what about surgeon-related? I'm sorry.  
18 Were you done or are there other factors?

19 A. There probably are other factors that are  
20 patient-related that will pop into my head in a minute  
21 or two, but those are the ones that are, you know,  
22 most commonly the ones that I think about.

23 Q. Okay. And what about surgeon-related?

24 A. Clearly, during surgery the skill and  
25 expertise of the surgeon in being able to

1 appropriately dissect in the correct tissue plane is  
2 important; the ability to correctly pass the  
3 instruments or the trocars and to place the material  
4 in the correct tissue spaces that it's designed to be  
5 placed; the ability of the surgeon to correctly close  
6 the incision are going to be factors affecting mesh  
7 exposure.

8 There are factors that can happen  
9 intraoperatively that are not always per se surgeon  
10 skill set. That's sort of one of those things that  
11 sort of happens, such as, you know, exit bleeding,  
12 hematoma formation, infected incision line -- what  
13 else? -- if the surgeon has had an unrecognized,  
14 let's say, vaginal perforation at the time of the  
15 implantation of the device. Those are factors that  
16 can affect the likelihood of an exposure or not. I  
17 think that's mainly the surgical-related factors.

18 Q. And what would be the material-related  
19 factors?

20 A. The material-related -- actually I can go  
21 back for the, I guess, the surgeon-related factors.  
22 You know, again, ensuring how much of the mesh  
23 material comes in contact with the vaginal epithelium  
24 so that obviously more surface area coming in contact  
25 with the more superficial tissue in the vaginal

1           epithelium will put a larger area to be at risk for  
2           erosion.

3                   MS. WAHRENBERGER: And just so it's clear,  
4           that was going back to surgeon-related --

5                   THE WITNESS: Yes.

6                   MS. WAHRENBERGER: -- issues.

7                   THE WITNESS: Yes.

8           BY MR. GRAND:

9                   Q. Yeah, that was clear. Thank you.

10                  A. Okay. Sorry. Everything sort of --  
11           sometimes it pops in, something different.

12                   So relative to materials-related, it is going  
13           to be, again, the volume of material that is -- maybe  
14           not volume -- probably more even the surface area of  
15           material that is coming in contact with the vaginal  
16           epithelium, if we're talking specifically about  
17           vaginal exposures. It's going to depend upon -- there  
18           is some difference between types of meshes regarding  
19           the porosity of the mesh that -- the macroporous, you  
20           know, type 1 meshes will be typically less likely to  
21           be -- have erosions than the microporous essentially,  
22           like a polytetrafluoroethylene type mesh, that has a  
23           higher rate of exposure.

24                   Again, we've talked just vaginal exposure,  
25           correct?

1 Q. Yes.

2 A. That's what you want? Okay.

3 Q. Yes. Do you have an opinion as to whether  
4 the foreign-body reaction caused by the implanting of  
5 a mesh, such as the TVT-R, Retropubic, is a transient  
6 reaction or a chronic reaction?

7 MS. WAHRENBERGER: Object to the form of  
8 the question.

9 THE WITNESS: I think that -- sorry. Can  
10 you repeat that? My brain just went someplace. It's  
11 getting hypoglycemic.

12 MS. WAHRENBERGER: I was going to say --

13 MR. GRAND: Do you want to break? We can  
14 break.

15 MS. WAHRENBERGER: It's between 25 and 20  
16 of. Shall we plan to break around 1:00? I don't want  
17 Dr. Horbach to go too long without having something to  
18 eat.

19 MR. GRAND: I suggest we break now.

20 MS. WAHRENBERGER: Well, we have a question  
21 pending. Do you want to withdraw the question at this  
22 point?

23 MR. GRAND: I'll withdraw the question and  
24 we can pick up after lunch. I don't want the --

25 MS. WAHRENBERGER: Okay. So can we resume

1 at 1:00 or do you need more time?

2 Do you think you need more time?

3 THE WITNESS: No, I'm fine. We just got to  
4 find someplace that is going to be --

5 MS. WAHRENBERGER: No, I think they are  
6 bringing food in.

7 MR. GRAND: I have 20 to 1:00 now. Is 20  
8 minutes enough time for you?

9 MS. WAHRENBERGER: What do you think?  
10 Yeah. Is that okay with you?

11 THE WITNESS: Yes. We would all like to be  
12 able to finish and go about our Christmas shopping or  
13 return things or something, so I'm fine to make it a  
14 short lunch.

15 MR. GRAND: That's fine.

16 MS. WAHRENBERGER: 1:00.

17 MR. GRAND: We'll plan on returning at  
18 1:00.

19 VIDEO SPECIALIST: The time now is 12:38.  
20 We're going off the record.

21 (Proceedings recessed.)

22 VIDEO SPECIALIST: The time now is 1:04.  
23 We are back on the record.

24 BY MR. GRAND:

25 Q. Doctor, during the break I was faxed a copy

1 of the document you referenced before concerning  
2 additional references.

3 A. As I said, I'm not totally sure that these  
4 are additional or not duplicated here, but as I --  
5 some of these were things that I pulled up myself as I  
6 was researching. I just kept a running list to make  
7 sure that there wasn't something that was missing.

8 MR. GRAND: Okay. Can we go ahead and mark  
9 this as Exhibit 5 to the deposition?

10 (Exhibit 5 was marked for identification.)

11 BY MR. GRAND:

12 Q. Doctor, when did you compile this list?

13 A. It's been over the last couple weeks as I  
14 was researching for my supplemental report and, you  
15 know, depo prepping, et cetera.

16 Q. Okay. Looking at this list, it seems as if  
17 the majority of references deal with sexual function  
18 after surgery for stress urinary incontinence. Would  
19 that be fair?

20 A. That's a good question. There are a number  
21 of those -- a number of the articles that are looking  
22 at that, yes. That was one of the things that I was  
23 researching regarding sexual function after any stress  
24 incontinent surgery and/or midurethral slings and/or  
25 following any erosion issues.

1 Q. And there are also articles on here  
2 relating to urge incontinency, correct?

3 A. Yes, I believe so. Yes.

4 Q. And there's articles in here relating to  
5 infection, correct?

6 A. Yes, I believe so.

7 Q. Okay. Is there a reason you were focusing  
8 on these issues in the last two weeks?

9 A. I was focusing on these issues relative to  
10 potential complications associated with sling  
11 surgeries in relation to having reread  
12 Dr. Rosenzweig's depos and some of the comments that  
13 he made.

14 Q. Okay. Are you aware that these are the  
15 types of injuries that are alleged by the plaintiff in  
16 this case?

17 A. I understand that there are a couple  
18 different issues that she has raised, yes. And I read  
19 his expert report, so -- specifically on the patient.

20 Q. Okay. Have you been asked by defense  
21 counsel to tell your opinions to address case-specific  
22 issues for Mrs. Corbet?

23 A. Not for case-specific issues regarding her  
24 care but more for global issues of the TVT or  
25 midurethral slings, TVTs impact on potentially sexual

1 function or overactive bladders or pain issues,  
2 et cetera, afterwards.

3 Q. Okay. And all of the articles on this list  
4 were available at the time you wrote your general  
5 report, correct?

6 A. My original general report?

7 Q. Yes.

8 A. My first one? Not all of them, no. Some  
9 of them have been published subsequent to the time --  
10 I mean there's one here I see from 2015. Some of  
11 them, yeah, there certainly could be some of them --  
12 there's another 2015 --

13 Q. Other --

14 A. -- 2014.

15 Q. Well, you wrote your report in 2014,  
16 correct?

17 A. Correct, but midway through the year. So  
18 some of the -- some articles for 2014 came out  
19 subsequent to -- some articles for 2014 came out  
20 subsequent to my report, and both of Dr. Rosenzweig's  
21 depositions came out subsequent to my report.

22 Q. Okay. Were you sent these articles by  
23 defense counsel?

24 A. These articles? No, these are articles  
25 that I specifically pulled when you were asking me



1           about my, you know, my whole process of how do I  
2           research this and go into the library, et cetera.

3                   Q.   Okay.   So you pulled these articles  
4           yourself over the last two weeks?

5                   A.   Yes.

6                   Q.   Okay.   Thank you.   You can set that aside.

7                   Doctor, would you agree that implantation of a  
8           synthetic mesh such as contained in the TVT Retropubic  
9           causes a foreign-body reaction in the patient,  
10          correct?

11                  A.   Yes.

12                  Q.   Okay.   Do you have an opinion as to whether  
13          that foreign-body reaction is a transient reaction?

14                  A.   I think that the foreign-body reaction is  
15          somewhat more pronounced usually in the beginning  
16          acutely.   That more pronounced effect is more  
17          transient, and, assuming that the patient does not  
18          experience an erosion, then I think that the  
19          foreign-body reaction does continue but not at the  
20          same -- not at the same intensity and/or, you know,  
21          manifesting as potentially clinically relevant, if  
22          that makes sense.

23                  Q.   And what do you base that opinion on?

24                  A.   Which part of the opinion?

25                  Q.   That the foreign-body reaction diminishes

1 over time. Is that what you stated?

2 MS. WAHRENBARGER: Well, no, she said it  
3 was less intense and of less clinical relevance.

4 THE WITNESS: No, my comments were that  
5 over time in a patient that does not experience an  
6 erosion, that the foreign-body reaction will continue,  
7 but that it may not manifest itself in a clinically  
8 relevant way.

9 BY MR. GRAND:

10 Q. Okay. So is the foreign-body reaction  
11 chronic?

12 A. That's the definition of a foreign-body  
13 reaction. The body has a response to it as long as  
14 it's there, whether it's a suture or a mesh or a screw  
15 or a hip implant, like I just had, or any of those  
16 things.

17 Q. Doctor, you're aware that Ethicon  
18 discontinued the sale of certain pelvic organ prolapse  
19 and SUI repair products, correct?

20 A. Yes, I'm aware of that.

21 Q. Do you have any understanding as to why  
22 those products were discontinued?

23 A. I have -- I heard explanations regarding  
24 it, but I don't know how accurate those comments were  
25 or not.

1 Q. You don't intend to offer any opinions on  
2 that at trial, correct?

3 A. About why they discontinued the use?

4 Q. Yes.

5 A. I don't believe so unless I'm specifically  
6 asked by, you know, you or counsel. I mean, I'm  
7 not -- I'm not -- I'm not proactively going forward in  
8 asking those opinions. The hard part is when you ask  
9 if I'm ever going to state an opinion about this, I  
10 don't know what questions necessarily I'm going to be  
11 asked, but I'm not proactively going forward as that  
12 as being one of my stated opinions. Does that make  
13 sense? Hopefully.

14 Q. It does. You haven't reviewed documents  
15 relating to the discontinuation of the POP products or  
16 the SUI products, have you?

17 A. Ethicon documents? No, I have not.

18 Q. Okay. Have you reviewed any testimony  
19 relating to that?

20 A. No, I have not.

21 Q. So at this time do you have any opinions  
22 relating as to why Ethicon decided to discontinue  
23 certain POP and SUI products?

24 A. I don't have opinions. I've, you know, as  
25 I said, I've heard reasons or rationales, but I'm not

1           sure that I have an opinion specifically about that.

2                   Q.   Okay.   Where did you hear those reasons and  
3           rationales?

4                   MS. WAHRENBERGER:   If I could short-circuit  
5           this, I don't think there is any anticipation that  
6           Dr. Horbach will be asked questions about her opinion  
7           as to why Ethicon discontinued any products at the  
8           Corbet trial.

9                   MR. GRAND:   Okay.   Thank you.

10                  THE WITNESS:   Okay.   I don't have to answer  
11           it.

12           BY MR. GRAND:

13                  Q.   Do you consider yourself an expert with  
14           respect to the design elements of the TVT Retropubic?

15                  MS. WAHRENBERGER:   Objection to the form of  
16           the question.

17                  THE WITNESS:   Yeah, I'm not sure what you  
18           mean about the "design elements."

19           BY MR. GRAND:

20                  Q.   Okay.   Let me give you examples.   Do you  
21           have opinions as to whether the TVT Retropubic is a  
22           lightweight or heavyweight mesh?

23                  A.   I think that, relative to some of the  
24           meshes that we've used previously in the past, it has  
25           determined to be definitely lightweight.   Some other

1 people will classify it more as heavyweight. The  
2 definition of what's lightweight and what's  
3 heavyweight has evolved and/or there's different  
4 classifications depending on who you read. So I  
5 typically would put it into more of a lightweight type  
6 of category.

7 Q. Okay. Do you have any opinions relating to  
8 the differences between mechanical-cut and laser-cut  
9 TVT Retropubic mesh?

10 A. In my experience -- excuse me. In my  
11 experience clinically I don't see a difference in how  
12 the two meshes behave either during implantation or  
13 subsequent to implantation in the patient.

14 Q. How many laser-cut TVT Retropubic meshes  
15 have you implanted?

16 A. I can't recall specifically. I mean, I  
17 know I've certainly implanted laser-cut Ethicon  
18 midurethral slings, because that's what the Exact is,  
19 but I don't remember in the specific Retropubic  
20 whether I was using primarily -- I mean, obviously  
21 primarily machine-cut in the beginning, but I don't  
22 recall how many I have done in that transition time  
23 period when it became an option of laser-cut versus  
24 mechanical-cut.

25 Q. Do you recall when the TVT Retropubic

1           became available in laser-cut?

2                   A. I think it was around 2006, but you had to  
3           specifically order it as laser-cut versus  
4           mechanical-cut, and I don't recall at this point now  
5           whether our hospital ordered it specifically one way  
6           or the other.

7                   Q. So sitting here today you don't know  
8           whether you've ever implanted a TVT laser-cut mesh,  
9           correct?

10                   MS. WAHRENBERGER: Objection.

11           BY MR. GRAND:

12                   Q. For Retropubic.

13                   A. Well, I mean, the Exact is a Retropubic  
14           TVT, a retropubic midurethral sling.

15                   Q. Okay. I'm not asking --

16                   A. It's just a different handle -- I'm sorry.

17                   Q. I'm not asking you about the TVT Exact,  
18           doctor. I'm asking you about the TVT Retropubic  
19           laser-cut.

20                   A. I cannot tell you one way or the other  
21           whether or not I've done a laser-cut one versus  
22           mechanical-cut only.

23                   Q. Did you review any internal documents  
24           relating to this issue, Ethicon internal documents?

25                   A. Regarding to the issue of what?

1 Q. Laser-cut versus mechanical-cut.

2 A. I did review some Ethicon internal document  
3 emails regarding the discussion of should they offer  
4 laser-cut in addition to mechanical-cut for the  
5 traditional TVT Retropubic.

6 Q. Did you view -- did you review any  
7 laser-cut internal studies or testing regarding  
8 mechanical-cut versus the laser-cut mesh?

9 MS. WAHRENBERGER: From Ethicon?

10 MR. GRAND: I said Ethicon.

11 THE WITNESS: I think that I did perhaps in  
12 the prior, you know, in formulating the original  
13 general report, you know, a year and a half ago. I  
14 seem to recall I did not re-review that specifically  
15 in the last short period of time, but I think I recall  
16 seeing some of that, yes, but I still can't give you  
17 the details.

18 BY MR. GRAND:

19 Q. Doctor, would you agree with me that a  
20 known complication of the TVT mesh is chronic pain?

21 A. Yes.

22 Q. Would you agree with me that one of the  
23 risks of the TVT Retropubic is pain with intercourse  
24 which in some patients may not resolve?

25 A. I think that that is a very -- I think

1           that's a very uncommon risk, at least in my experience  
2           with the retropubic procedure.

3                   Q.   Okay.  I'm not asking you whether it's  
4           common or uncommon, doctor.  I'm asking if you would  
5           agree that one of the risks of the TVT Retropubic is  
6           pain with intercourse, which in some patients may not  
7           resolve?

8                   A.  I have seen that reported in the  
9           literature, yes.

10                  Q.  Would you agree with me that one of the  
11           risks of the TVT Retropubic is contraction or  
12           shrinkage of the tissue in combination with the mesh?

13                  A.  I have seen that reported in studies where  
14           they have interpreted that there was contracture based  
15           on either the size of explanted mesh materials or I  
16           think even based on perhaps ultrasound measurements,  
17           if I recall.

18                  So I think they have made the -- they have made  
19           the clinical assumption that this was -- that  
20           contracture was occurring based on changes or other  
21           parameters that they noticed.

22                  Q.  Is that a yes, that you would agree it's a  
23           known risk?

24                  A.  Yeah, I guess with any -- yeah, I suppose I  
25           would say, yes, that that's a known risk.



1 Q. Would you agree with me that one of the  
2 risks of the TVT Retropubic is that, when an adverse  
3 reaction occurs, further surgery may be required to  
4 correct it?

5 A. Yes.

6 Q. Would you agree with me that one of the  
7 risks of the TVT Retropubic is that, when an adverse  
8 reaction occurs, one or more revision surgeries may be  
9 necessary to treat it?

10 A. Yes.

11 Q. Would you agree that one of the risks of  
12 the TVT Retropubic is that, when revision surgery is  
13 required, significant dissection of tissue may be  
14 needed?

15 A. I'm not sure what you mean by "significant  
16 dissection." Yes, you have to dissect. I'm not sure  
17 whether, you know, you call it significant dissection  
18 or not.

19 Q. Okay. Would you agree that one of the  
20 risks associated with the TVT Retropubic is scar  
21 plating and bridging fibrosis?

22 A. I've not seen that clinically, although I  
23 have seen pathologists report that on explanted --  
24 excuse me -- on explanted specimens that have been  
25 evaluated histologically.

1 Q. Okay. So would you agree that's one of the  
2 risks, then?

3 A. Yes, I would suppose so. I mean, I haven't  
4 seen it clinically, but I've seen it reported.

5 Q. Would you agree that scar plating and  
6 bridging fibrosis can cause contraction?

7 MS. WAHRENBERGER: Objection to the form of  
8 the question.

9 THE WITNESS: I think -- are we talking  
10 contraction of the mesh or the whole sort of  
11 tissue-mesh complex or ...

12 BY MR. GRAND:

13 Q. Yeah, let's say the tissue-mesh complex to  
14 be fair.

15 A. I think, again, there have been authors who  
16 have stated that their findings suggest that. I'm not  
17 always sure -- I'm not sure that I agree that that,  
18 again, clinically is an issue and/or that they  
19 necessarily come to the correct conclusion based on  
20 what they're -- what they're seeing in their research.

21 Q. Would you agree that scar plating and  
22 bridging fibrosis can cause pain in a patient?

23 A. I think that pain can be found in patients  
24 where that type of histologic sample, I guess, has  
25 been seen. I'm not sure that you can say that the

1 pain is caused by that.

2 Q. Would you agree that scar plating and  
3 bridging fibrosis -- can cause erosion?

4 A. I think -- could it ever possibly? It's  
5 perhaps possible. I don't think that that typically,  
6 though, is what you're going to see with, you know,  
7 scar tissue or tissue growing into the mesh. I don't  
8 think that typically erosion is going to be the more  
9 way you see that.

10 Q. Do you agree that scar plating and bridging  
11 fibrosis can lead to extrusion?

12 A. I think if just scar plating is there and  
13 that's the only abnormality and there's nothing that  
14 is abnormal on the surface epithelium, I don't think  
15 that the scar plating in itself by itself in a normal  
16 type of epithelium without a prior perforation is  
17 going to per se cause an extrusion.

18 Q. Have you ever studied whether the Prolene  
19 mesh in the TVT Retropubic can degrade?

20 A. I have studied it in, you know, in clinical  
21 situations in patients where I have operated on and --  
22 or reoperated on and/or followed over time in terms of  
23 changes in their anatomy from any degradation.

24 Q. Have you ever seen degradation in any mesh  
25 explants under a microscope?

1 A. Have I seen it under the microscope? No.

2 Q. Do you know whether the microscope you were  
3 using was sufficiently powered to see degradation?

4 A. Probably not since I think most of the  
5 degradation reports seem to be more with, you know,  
6 scanning electron microscopy or other very specialized  
7 type of equipment and/or preparations.

8 Q. Have you read literature relating to this  
9 issue?

10 A. Yes, I have.

11 Q. Have you read internal Ethicon documents  
12 relating to this issue?

13 A. I don't recall that I have. I don't  
14 remember anything in particular, no.

15 Q. Have you read any testimony of Ethicon  
16 employees relating to this issue?

17 A. No.

18 Q. Just give me a second, doctor. I want to  
19 ask you about some things that are in your report  
20 specifically but some of which I think I've already  
21 covered. So just give me a moment to catch up.

22 Doctor, if you can look at the exhibit, what's  
23 been marked as Exhibit 2, your general report, and  
24 turn to page 26, please.

25 A. Okay.

1 Q. Okay. Do you see under the heading of  
2 Complications of MUS versus Other Surgeries for Stress  
3 Incontinence?

4 A. Yes.

5 Q. Okay. If you look at the third sentence of  
6 that paragraph, it says:

7 Many of the earlier studies published  
8 on the outcomes of Burch  
9 colposuspension and pubovaginal sling  
10 procedures did not specifically  
11 describe all complications, failed to  
12 even consider quality of life and  
13 sexual function parameters and often  
14 had rather short length of follow-up?  
15 Do you see that?

16 A. Yes.

17 Q. Okay. That criticism would be true of many  
18 of the TVT studies as well, correct?

19 MS. WAHRENBERGER: Objection to the form of  
20 the question.

21 THE WITNESS: Actually the quality of the  
22 majority of the TVT studies are much better than what  
23 I've listed here of the original Burch studies. They  
24 do address complications much more comprehensively  
25 than prior reports had done as well -- from the

1 complications.

2 Follow-up of the -- many of the TVT studies now  
3 are longer than just the one-year follow-up in  
4 patients, and especially some of the TVT studies that  
5 are done like through the NIH protocol and the Tomas  
6 study, they do indeed specifically address sexual  
7 function and quality of life issues.

8 BY MR. GRAND:

9 Q. Okay. Doctor, just to be clear, I wasn't  
10 asking you about recent studies. I was asking you  
11 about the earlier studies. Isn't it true that most of  
12 the early studies on the TVT were short-term studies?

13 A. I think that the original report was closer  
14 to two years' follow-up, if I recall. I'd have to  
15 look back at it. It did talk about complications. It  
16 did not address sexual function or quality of life  
17 issues in the initial report.

18 Q. Isn't it true, doctor, that very few of the  
19 TVT studies actually collected information on sexual  
20 function such as dyspareunia?

21 MS. WAHRENBERGER: Objection to the form of  
22 the question. Go ahead.

23 THE WITNESS: During which period of time  
24 are we talking about?

25 BY MR. GRAND:

1 Q. All periods of time. Strike that.

2 Do you have an understanding as to how many of  
3 the TVT studies you reviewed actually collected data  
4 on dyspareunia?

5 A. Dyspareunia or pain with sex is one of the  
6 domains of the sexual function questionnaire that is  
7 now commonly employed in doing the prospective studies  
8 for stress urinary incontinence treatments, including  
9 the midurethral slings.

10 So there's a domain part of that that talks  
11 about pain with intercourse, and that's part of the --  
12 I think there's five different domains that are looked  
13 at. So, yes, pain with intercourse is part of the  
14 sexual function questionnaire.

15 Q. And that's a more recent development, isn't  
16 it?

17 A. I can't tell you when the first  
18 questionnaire was used in a TVT trial for this. I  
19 mean, the Tomas trial was going on five, probably  
20 eight years ago or so, and that certainly included it.

21 Q. Could you turn to page 30 of your report,  
22 doctor?

23 A. Yes.

24 Q. And if you see the heading there, IFU in  
25 Professional Education Opportunities? Do you see

1           that?

2                   A.   Yes.

3                   Q.   If you look, I guess, the second sentence  
4           above that, my experience has confirmed that a  
5           minimally invasive MUS is a preferred option for  
6           treating stress incontinence. Do you see that?

7                   A.   Yes, I do.

8                   Q.   Okay. You say, "It is the Gold  
9           Standard --" and before I read on, I want to actually  
10          confirm what you're talking about. Are you saying  
11          that midurethral slings generally are the gold  
12          standard or are you saying that the TVT is the gold  
13          standard?

14                  A.   In this particular situation I think I am  
15          saying that minimally invasive slings are the gold  
16          standard.

17                  Q.   Okay. And you go on to say, and I agree  
18          with the position statements, practice guidelines and  
19          analyses by AUGS, AUA, SUFU, SGS, ICS, NICE and IUGA,  
20          which recognize TVT as a first-line option for women.

21                  Did you mean to say MUS there or are you saying  
22          that those societies are recommending the TVT  
23          Retropubic as the first-line option for women?

24                  MS. WAHRENBERGER: Objection. Retropubic  
25          isn't even there.



1 BY MR. GRAND:

2 Q. Doctor, you can answer the question.

3 A. The -- I think the reference would be more  
4 for midurethral slings as first-line option.

5 Q. Okay. So you aren't suggesting there that  
6 those societies are saying that the TVT is the  
7 first-line option, correct?

8 A. The Ethicon TVT, no, I'm not saying that  
9 that -- I'm saying midurethral slings.

10 Q. Okay. Thank you. With respect to  
11 professional education, did you review professional  
12 education materials that were created by Ethicon for  
13 the TVT Retropubic?

14 A. Yes, I did. I reviewed some of the -- I  
15 reviewed lecture slide sets that were developed as  
16 part of the professional education material.

17 Q. Okay. And did you -- those materials  
18 typically made reference to various studies in support  
19 of the claims in the materials, correct?

20 A. I think I'd have to look back at the slide  
21 set to be able to answer that. I think they probably  
22 did, but I would -- I'm not totally sure. I've  
23 reviewed a lot --

24 Q. You didn't check --

25 A. No, I've reviewed a lot of material,

1 especially, you know, as getting in preparation for  
2 the deposition. So sometimes things get a little  
3 blurry about what you remember or what you don't  
4 remember. So prior to answering -- I know I looked at  
5 that, the professional education slides, but which  
6 studies they quoted or not, I would have to look back  
7 at the slides.

8 Q. Okay. Okay. Doctor, I'm going to ask the  
9 court reporter to mark as Exhibit 6 an email from Eric  
10 Globerman dated May 24, 2004.

11 (Exhibit 6 was marked for identification.)

12 BY MR. GRAND:

13 Q. For the record this document is Bates  
14 stamped ETHMESH 11840160.

15 Doctor, do you see it's an email from Eric  
16 Globerman to Cindy Pypcznski?

17 A. Yes, I see that.

18 Q. Do you recognize either of those names?

19 A. No.

20 Q. Okay. And do you see the subject line is  
21 RE: TVT Targets?

22 A. Yes.

23 Q. Okay. And I want to direct your attention  
24 to paragraph 1 of that email. Do you see it says,  
25 Fairfax Hospital?

1 A. Yes.

2 Q. Do you see it says, "Dr. Wellgoss and  
3 Horbach have both been using the Boston Scientific  
4 Advantage sling"? Did I read that correctly?

5 A. Yes, that's what it says.

6 Q. Okay. "Boston Scientific has consigned  
7 this product to the hospital and also discounted the  
8 price." Did I read that correctly?

9 A. Yes.

10 Q. Were you using the -- were you not using  
11 the TVT in May of 2004?

12 A. I don't know. I would expect that I was  
13 potentially using both of them. Sometimes the  
14 hospital has gone back and forth with Ethicon  
15 regarding contracts and getting, oh, a, whatever,  
16 discounted stuff whatever so that they could be able  
17 to have different products available. Sometimes  
18 there's a year that they're there; sometimes there may  
19 be a year that they are not.

20 Q. And the statement "Boston Scientific has  
21 consigned this product to the hospital and also  
22 discounted the price," would that suggest to you that  
23 the hospital was only carrying the Advantage as  
24 opposed to the TVT-R?

25 A. No, that would not suggest that to me, not

1           for -- not typically for Fairfax. They may have had  
2           the discounted for the Boston Scientific and been  
3           preferring that we use that, but we've gone back and  
4           forth with Fairfax for many years regarding what  
5           materials or not or what slings or what mesh for  
6           prolapse repairs we were going to end up being --  
7           wanting to use.

8                     Q. You can set that aside, doctor.

9                     MR. GRAND: I'm going to ask the court  
10           reporter to mark as Exhibit 7 an email from Cindy  
11           Pypcznski dated February 9, 2009, subject line INOVA.

12                    (Exhibit 7 was marked for identification.)

13           BY MR. GRAND:

14                    Q. Doctor, what's INOVA?

15                    A. INOVA is the parent company for my hospital  
16           and a number of other hospitals in the northern  
17           Virginia area.

18                    Q. And do you see in the email there's several  
19           doctors listed? And do you see your name there?

20                    A. I do.

21                    Q. And you're there as using the Prolift,  
22           Apogee and the Perigee. Do you see that?

23                    A. Correct.

24                    Q. And those are products you were using  
25           for -- to repair pelvic organ prolapse?

1 A. No. It's incorrect.

2 Q. Incorrect? And do you see it says you were  
3 using Boston Scientific slings?

4 A. I see that it --

5 Q. Is that correct?

6 A. I see that it says that, but I'm saying  
7 that this information, wherever they got it, is  
8 incorrect. I have never used an Apogee or Perigee  
9 sling -- or for a prolapse procedure period. So  
10 whoever said I was using it --

11 Q. Okay.

12 MS. WAHRENBERGER: Let her finish.

13 THE WITNESS: So whoever said that I was  
14 using this, it's not accurate. So if they are saying  
15 that I am using things that I'm not using, then also  
16 saying I'm not using things that I am using, I think,  
17 is certainly conceivable. This simply is not  
18 accurate.

19 BY MR. GRAND:

20 Q. Okay. You were using the Prolift at the  
21 time, correct?

22 A. Yes, I was using Prolift.

23 Q. And you testified --

24 A. Actually --

25 Q. -- earlier --

1           A. Actually, yes, 2009, I think -- trying to  
2           remember whether that was around the time that we  
3           began not using Prolift or not. It was -- I don't  
4           even remember whether I was still using Prolift at  
5           that particular time.

6           Q. Okay. Do you have any reason to doubt you  
7           were using -- you were using Boston Scientific slings  
8           at that time and not the TVT-R?

9           A. I think that I was -- I'm pretty sure that  
10          I was using Boston Scientific at that time and  
11          probably not the TVT-R. That's the middle round, as I  
12          said to you, where I was going in transition.

13          Q. Understood. Thank you.

14          MR. GRAND: I'm going to ask the court  
15          reporter to mark as Exhibit 8 an email from Cindy  
16          Pypcznski dated December 14th, 2010.

17          (Exhibit 8 was marked for identification.)

18          MS. WAHRENBERGER: Just for the record,  
19          none of the documents that you've passed to us,  
20          Mr. Grand, have the Bates stamp marking on the bottom.  
21          It looks like the way they were photocopied --

22          MR. GRAND: That must be the way they were  
23          printed out because they were on the PDFs I sent.

24          MS. WAHRENBERGER: Yes. So I just wanted  
25          you to be aware that -- they're going to be attached,

1 I assume.

2 MR. GRAND: Understood. For the record I'm  
3 going to read them in, so if there's any dispute later  
4 you can confirm it.

5 MS. WAHRENBERGER: I can't confirm it one  
6 way or the other because there's no -- I can't see a  
7 Bates stamp.

8 MR. GRAND: I'm not asking you to confirm  
9 it right now. Okay? I'm going to represent to you  
10 what the Bates number is and --

11 MS. WAHRENBERGER: Fair enough. Go ahead.

12 MR. GRAND: Okay. I had already read the  
13 Bates number for Exhibit 6. For Exhibit 7 the Bates  
14 number is ETHMESH 11841786. For Exhibit 8, which we  
15 just handed to the witness, the Bates number is  
16 ETHMESH 11847771.

17 MS. WAHRENBERGER: And there are two  
18 additional pages after that.

19 MR. GRAND: Yes. Oh.

20 MS. WAHRENBERGER: The next two numbers, I  
21 assume?

22 MR. GRAND: It's sequential. The last  
23 Bates number is 11847773.

24 BY MR. GRAND:

25 Q. Dr. Horbach, do you see this email is from

1 Cindy Pypcznski to Carole Carter-Cleaver?

2 A. Yes, I see that.

3 Q. Okay. And do you see there's a number of  
4 names listed under the cc line?

5 A. I -- under the cc line, yeah, there are a  
6 lot of names. Okay.

7 Q. Yeah. Do you recognize any of those names?

8 MS. WAHRENBERGER: And we're talking about  
9 the KTrombly, Justin Preston, that group of names?

10 MR. GRAND: Yes.

11 MS. WAHRENBERGER: Okay.

12 THE WITNESS: Only that I think the Kyle  
13 Boyle was on the one just before that email. The  
14 previous email we looked at, Kyle Boyle was one of the  
15 people, but the other names I don't recognize.

16 BY MR. GRAND:

17 Q. Yeah. Doctor, to be clear, I don't expect  
18 that you would have ever seen any of these emails.  
19 I'm asking if in the course of your career and  
20 occasional interactions with Ethicon whether you  
21 recognize any of these names as people you've met or  
22 spoken with.

23 A. You know, Kyle, that name sounds familiar.  
24 He may have been the person that, you know, that was  
25 around the operating room and showing us the new



1 things, whether it's morcellators or whatchamacallit,  
2 you know, the ligature kind of things, et cetera, that  
3 we do. So I think, yeah, I think I've interacted with  
4 him previously.

5 Q. Okay. And that's Kyle Boyd?

6 A. Yes, I believe so.

7 Q. Okay. Do you see on the subject line is  
8 "Big East Division: TVT Roundtable"?

9 A. Yes.

10 Q. Do you see that?

11 A. Yes.

12 Q. Okay. And do you see you're listed --  
13 you're listed on -- you're at the top of the list on  
14 this list of surgeons, correct?

15 A. My name is there. I don't know what that  
16 means.

17 Q. And do you see next to your name in  
18 parentheses it says "UroGyn uses BS Advantage"?

19 A. I see that, yes.

20 Q. Do you see that?

21 A. Yes.

22 Q. Okay. And you would know that to be the  
23 Boston Scientific Advantage sling?

24 A. I assume that that's what he means or she  
25 means.

1 Q. Okay. And that's the sling you were using  
2 in December 2010?

3 A. It was one of the slings. I mean, again,  
4 this document -- the name of my practice isn't even  
5 correct, so, you know, the accuracy of these emails  
6 going back and forth, again, I don't know what the  
7 emails are, but, you know, my practice wasn't at that  
8 point, you know, Northern Virginia Pelvic Surgery  
9 Associates. We had a totally different name to our  
10 practice, so -- anyway ...

11 Q. Were you are using the -- had you started  
12 using the TVT Exact at this point in time?

13 MS. WAHRENBERGER: That's December of 2010.

14 THE WITNESS: I don't remember, but around  
15 this time period I was also -- I had privileges at  
16 another hospital, and so I was operating there at  
17 times as well, and they actually in the beginning --  
18 they only carried the Ethicon products, and so I think  
19 it would have been a TVT Exact when I was operating at  
20 the other hospital. So I think there was around that  
21 time period that I would have potentially been using  
22 one or both.

23 BY MR. GRAND:

24 Q. Okay. Thank you.

25 A. What is this roundtable thing? Can I --

1 I'm just -- I can't ask questions.

2 MS. WAHRENBERGER: No, no questions.

3 THE WITNESS: Sorry.

4 BY MR. GRAND:

5 Q. Doctor, I know you've used the -- strike  
6 that.

7 Doctor, I have to ask you another question. I  
8 am not -- I want to assure you that I am not trying to  
9 be disrespectful in any way or pry into your personal  
10 life in any way. I'm only asking this question  
11 because it was spoken about in an Ethicon document  
12 that was produced in this litigation. And I think it  
13 may relate to your opinions in this case.

14 A. Okay.

15 Q. What?

16 A. Okay. That's a good -- that's an  
17 interesting forwarding.

18 Q. I'm doing it, doctor, because I'm trying to  
19 assure you that I'm not trying to be disrespectful.

20 A. That's okay. Thank you.

21 MR. GRAND: I'm going to ask the court  
22 reporter to mark as Exhibit 9 an email from Jacqueline  
23 Russo dated January 9th, 2003.

24 (Exhibit 9 was marked for identification.)

25 THE WITNESS: Ah. Okay.

1 BY MR. GRAND:

2 Q. Okay. So you --

3 A. I was wondering --

4 Q. Do you see --

5 MS. WAHRENBERGER: Wait until he asks the  
6 question.

7 THE WITNESS: Sorry.

8 BY MR. GRAND:

9 Q. Do you see this is an email from Jacqueline  
10 Russo to Cheryl Bogardus and others?

11 A. Yes.

12 Q. Okay. And do you see the subject line is  
13 "SUI/TVT article in Working Mother Magazine"?

14 A. Yes.

15 Q. Okay. And if you look at the body of the  
16 email, they are discussing the article generally and  
17 that you're quoted in the article. Do you see that?

18 A. Yes, I do.

19 Q. Okay. I want to draw your attention to  
20 the -- to the last two sentences. It says, "An  
21 interesting note, Dr. Horbach discussed her personal  
22 experiences with stress incontinence that ultimately  
23 she was treated with surgery." Do you see that?

24 A. Yes, I do.

25 Q. Okay. So, doctor, I'm just asking this

1 because you are an expert in this case.

2 A. That's okay.

3 Q. Have you received the mesh implant for  
4 stress urinary incontinence?

5 A. I had my surgery done -- I had a sling in  
6 1999, and I had severe intrinsic sphincter deficiency  
7 at that point, and TVTs weren't really being used at  
8 that point for severe ISD. The data just wasn't out  
9 at that point. So I had a traditional fascial sling.  
10 Nowadays I would have had a TVT.

11 Q. Doctor, do you intend to testify regarding  
12 your own personal experience with this surgery at  
13 trial?

14 A. With my personal experience with my sling  
15 surgery?

16 Q. Yes, your own condition, your own treatment.

17 A. I didn't necessarily intend to bring that  
18 up as part of it -- of the situation. I mean, it's --  
19 I've been open and there has been something in a  
20 national magazine about the fact that I think women  
21 need to be able to be forward and talk about it, and  
22 if I'm not willing to step forward and say I've had  
23 it, then how can I expect them to say they have had  
24 it, but whether that is going to come up at trial,  
25 I -- we -- I've not been specifically asked to bring

1           that up at trial or discuss that at trial.

2                   Q.   Okay.   Have you had complications as a  
3           result of your own surgery?

4                   A.   I mean, I've had, you know, after effects.  
5           It's not what I would call complication, but, you  
6           know, changes in how my bladder functions compared to  
7           perhaps preoperatively, but the trade-off for me,  
8           again, in the risk/benefit is much more in favor of  
9           having done it.   I mean, I pee slower, so, you know,  
10          that's not that big of a deal to me.

11                  Q.   Okay.   I guess my question was you haven't  
12          suffered any long-term -- you don't suffer any  
13          complications today as a result of your sling surgery,  
14          do you?

15                  A.   Again, it depends on what you -- this is  
16          that whole definition of what's a complication versus  
17          what is a change or a difference compared to what it  
18          was previously.

19                  So just because something is different than  
20          what it was previously doesn't necessarily mean it's a  
21          complication.   If you were to say using some  
22          definition my voiding would be considered to be  
23          perhaps, I guess, it's not the same as what it used to  
24          be, it doesn't really affect my life, but this is  
25          where that whole issue of is it a complication versus

1 is it a change in things.

2 Q. Okay.

3 A. Does that make --

4 Q. I think you meant -- I'm sorry. I thought  
5 I heard an echo.

6 A. No.

7 Q. I think you mentioned when I first asked  
8 you about this that, if you, I guess, had to do it all  
9 over again, you would use a TVT. Is that what you  
10 said?

11 MS. WAHRENBERGER: Objection,  
12 mischaracterization.

13 THE WITNESS: I said --

14 MR. GRAND: I'm not trying -- I'm asking  
15 her the question so I'm not mischaracterizing it. I'm  
16 asking her to clarify what she said.

17 THE WITNESS: If I were to undergo surgery  
18 for stress incontinence now in this day and age with  
19 the data that we have available, I would choose to do  
20 a TVT, yeah.

21 BY MR. GRAND:

22 Q. A TVT Exact?

23 A. Yeah, I would probably -- I mean, part of  
24 it is actually I would probably, trying to be a good  
25 patient and not being a doctor who is telling another

1 doctor what to do, I would probably give my surgeon  
2 the, you know, choice of, if you want, if it was my  
3 partner and he wanted to do it as the Retropubic TVT  
4 or my other partner wanted to do the Exact, fine,  
5 whichever one you prefer doing. I'm not going to tell  
6 one of them to use one versus the other.

7 Q. Okay. Thank you, doctor.

8 A. That's okay.

9 Q. I appreciate your candor. And, again, I  
10 was not trying to be disrespectful.

11 A. Actually this --

12 Q. I have no --

13 A. This is fine. I mean, I -- that doesn't  
14 bother me at all. I'm very open with my patients  
15 about it.

16 MR. GRAND: Doctor, I have no further  
17 questions for you.

18 MS. WAHRENBERGER: You know, we're going to  
19 take a quick break. I have a few questions, but we'll  
20 come back in a couple minutes.

21 MR. GRAND: Sure.

22 VIDEO SPECIALIST: The time now is 2:01.  
23 We are going off the record.

24 (Proceedings recessed.)

25 VIDEO SPECIALIST: The time now is 2:12.



1 We are back on the record. This is the beginning of  
2 disc 3.

3 EXAMINATION

4 BY MS. WAHRENBERGER:

5 Q. Dr. Horbach, I have some questions I'd like  
6 to ask you. You've been asked some questions by  
7 Mr. Grand about foreign-body reaction. Do you recall  
8 those questions?

9 A. Yes.

10 Q. Is foreign-body reaction something that is  
11 seen all the time every time when a foreign body is  
12 introduced into the human body?

13 A. Yes. Any foreign -- any nonhuman,  
14 non-that-person, essentially, material that is in an  
15 individual's body will create a foreign-body reaction,  
16 whether it's a splinter or a suture that is permanent  
17 or a mesh or a bone anchor or a screw or a joint  
18 replacement or a stent or anything like that.

19 Q. Does a foreign-body reaction differ from an  
20 inflammatory response?

21 A. An inflammatory response usually is a much  
22 more accelerated or much more intense type of body  
23 reaction than what you might see with a foreign-body  
24 reaction. So typically an inflammation will have a  
25 foreign-body reaction but not always would a

1 foreign-body reaction have evidence of, you know,  
2 clinically significant inflammation.

3 Q. What would be the signs and symptoms of  
4 clinically significant inflammation?

5 A. For -- in the vaginal area it will usually  
6 be a combination of a couple different symptoms.  
7 Number one, they will usually have some type of  
8 abnormal discharge. It will either be more yellow,  
9 more tan, grayish kind of discharge. It is -- it  
10 usually has a little bit of an odor to it as well.  
11 There will typically be -- there can be some periodic  
12 spotting or bleeding that the patient reports  
13 sometimes just during regular sort of physical  
14 activity, other times following sexual activity.  
15 There can be occasionally, depends on where the  
16 inflammation is, there could be some irritated  
17 symptoms, urinary type symptoms of irritation.

18 In examining the patient she's going to  
19 usually, in addition to having the discharge, she may  
20 show an area of the vagina with some increased  
21 erythema, redness. That area will typically be more  
22 delicate or what we call friable, so you barely touch  
23 it with a Q-tip and you'll see blood on the Q-tip or  
24 see spotting.

25 And sort of in the more final phase of it you

1 will actually see what we call frank granulation  
2 tissue, which looks like sort of a red, beefy, polyp-y  
3 looking tissue that is present around the area of  
4 inflammation.

5 Q. After a TVT Retropubic sling is implanted  
6 and the incision that allowed the implantation of it  
7 closed, where is the TVT sling located?

8 A. It is located under the vaginal epithelium  
9 or tissue layer under the mid portion of the urethra.  
10 So it is usually about a centimeter and a half or so  
11 inside from the hymen, under the epithelium and the  
12 skin, and then it tunnels on either side of the  
13 urethra up behind the pubic bone and out through the  
14 abdominal incision.

15 Q. Once it's in place is the sling within the  
16 vaginal cavity or outside of it?

17 A. It's deep to the vaginal cavity. It's not  
18 in the vaginal lumen or cavity itself. It's under the  
19 skin.

20 Q. When a foreign-body reaction or an  
21 inflammatory response occurs, can they be seen at  
22 histopathological analysis?

23 A. Yes.

24 Q. Is foreign-body reaction an inflammatory  
25 response part of the normal healing process in the

1 body?

2 A. A foreign-body reaction, yes, is part of  
3 the normal process of healing, when there's anything  
4 there that's not supposed -- or not normally there.  
5 You can often see inflammation in the early stages of  
6 healing. As the incision is healing, sometimes it  
7 will look a little red or even a little bit of  
8 granulation tissue present within the first, you know,  
9 few weeks or months, but usually as the healing  
10 completes that the inflammation changes will no longer  
11 be seen.

12 Q. Does scar tissue develop all the time after  
13 an incision has been made and closed as part of  
14 surgery?

15 A. Yes. I mean, that's one of the challenges  
16 of doing surgery that, whenever you make an incision  
17 and the tissue heals together, that area almost always  
18 is going to have -- be more restrictive and have less  
19 stretchability or pliability than the surrounding  
20 tissue that's separate from the incision.

21 Q. Does scarring occur even when a foreign  
22 body is introduced such as a sling?

23 A. Yes, with or without -- with or without a  
24 foreign body you're still going to have scar tissue  
25 form.

1 Q. Is the scar tissue that develops permanent  
2 within the body?

3 A. Yeah, that -- that scar tissue is going to  
4 be permanent. The body doesn't dissolve the scar  
5 tissue.

6 Q. The tissue reaction that occurs when a TVT  
7 mesh is implanted is considered to be part of what is  
8 desired as the -- as part of the introduction of the  
9 mesh into the body; isn't that true?

10 MR. GRAND: Objection.

11 THE WITNESS: Okay. Yes, part of what  
12 ideally helps a TVT do what it's supposed to do and  
13 hold the tissues in its proper location is the  
14 ingrowth of tissue through the mesh to create sort of  
15 an interaction of both mesh and tissue together, which  
16 is, as opposed to materials such as Gore-Tex, which  
17 were used as a sling for a period of time, where scar  
18 tissue didn't actually grow into the sling and that  
19 was found to be much less effective as a sling  
20 material.

21 BY MS. WAHRENBERGER:

22 Q. Does the tissue reaction which you've  
23 described occurs assist in making the sling effective  
24 in preventing any further stress incontinence?

25 MR. GRAND: Objection.

1 THE WITNESS: Yes, that -- that scar tissue  
2 is part and parcel of the overall effect of the sling  
3 in helping to correct the stress incontinence.

4 BY MS. WAHRENBERGER:

5 Q. When mesh is the cause of pain within a  
6 woman's vagina, in your experience is removal of the  
7 mesh curative of the pain that the patient reports?

8 A. It depends on what procedure, you know, has  
9 been done, you know, what type of procedure was done  
10 to implant the mesh, but in midurethral sling  
11 procedures typically removal of the mesh in the area  
12 where there's a problem usually has a fairly good  
13 ability to resolve the pain. At times there will  
14 still be some residual pain in the area that may need  
15 some additional treatment, but it is very unusual for  
16 you to have removed the mesh and/or, you know,  
17 incorporated tissue and have no change in the  
18 patient's pain complaints.

19 Q. What are the various treatments that are  
20 available when pain persists after the mesh is  
21 removed?

22 A. In my experience the, you know, the most  
23 sort of common things that we start with is ensuring  
24 that the tissue has -- is of good-enough quality, not  
25 atrophic, not inflamed or not having something like an

1           atrophic vaginitis as the cause of some of the  
2           irritation or discomfort, so we obviously -- we start  
3           with vaginal estrogen. It also helps promote healing  
4           from, let's say, having removed the mesh and trying to  
5           make better quality tissue.

6                   Then if there -- depends a little bit on where  
7           the pain is located and how you elicit it, but if  
8           there is scar tissue that's there as residual or there  
9           is -- a lot of patients with pain issues have problems  
10          with tightness or spasms or call it a knot of their  
11          pelvic floor muscles, so physical therapy that  
12          involves manipulation of the scar tissue, they call it  
13          scar mobilization, there's techniques that they do,  
14          and/or myofascial treatment for the -- those two  
15          changes are usually very effective in resolving the  
16          problem.

17                   If that isn't effective, then the next step we  
18          go to is perhaps a trigger-point injection into the  
19          scar tissue and/or we've even used Botox injections  
20          into the pelvic floor muscles that are in spasm.

21                   Q. In your experience, Dr. Horbach, are all  
22          exposures or erosions of mesh symptomatic in the women  
23          you're caring for?

24                   A. No. I will periodically have a patient  
25          referred to me because there is a small mesh exposure

1           that the general gynecologist or the internist has  
2           seen or felt during a routine examination and the  
3           patient may not be aware of it or have any symptoms  
4           from that, and that patient will then be referred in  
5           for treatment.

6                   Those treatments can sometimes involve  
7           conservative management not having to do anything  
8           surgically. If it's a larger area of mesh that's  
9           exposed and doesn't respond conservatively, then  
10          occasionally it does require surgical intervention.

11                   Q. Doctor, you described the gradual  
12          transition from the TVT Retropubic to the Boston  
13          Scientific product to the TVT Exact. Comparing the  
14          TVT Retropubic to the Exact, explain, if you would,  
15          what the similarities and differences of the two  
16          products are.

17                   A. The product itself and essentially the  
18          mesh, assuming, you know, you'd do the laser-cut TVT  
19          Retropubic mesh, and the sleeve, they are essentially,  
20          you know, pretty much identical. Even if you use  
21          mechanical versus laser, the edges may be slightly  
22          different, although not typically something that  
23          affects, you know, your surgical procedure, but the  
24          mesh and the porosity and the handling of the mesh is  
25          very, very similar.



1                   It's really more the difference between the --  
2                   sort of the ends of what's attached to the mesh that  
3                   is different and how you actually are -- what -- what  
4                   type of instrument you're using to actually pass the  
5                   mesh into its position, but the position where you're  
6                   inserting the mesh is the same through each of the two  
7                   procedures. You are tensioning it in the same way.  
8                   You know, risk issues are fairly much the same. I  
9                   mean, you're really -- it's more the parts that stick  
10                  on the end that's the issue that's different.

11                 Q. Are they ultimately removed, the parts that  
12                 stick on the end?

13                 A. Yes. Yes. Sorry. Sorry.

14                 Q. Do both of those meshes consist of  
15                 polypropylene?

16                 A. Yep, both of the TVT Retropubic and the  
17                 Exact are polypropylene.

18                 Q. Are they the same length ultimately?

19                 A. Yes.

20                 Q. Do they involve the same amount of mesh  
21                 being left within the -- inside of the patient?

22                 A. Yes. If you were to implant either one in  
23                 the same patient, it's still the same length and  
24                 amount left behind.

25                 Q. Is it implanted through the exact same part

1 of the body, both the -- both the Retropubic and the  
2 Exact?

3 A. Yes, same vaginal incision, essentially  
4 same suprapubic incision, maybe a millimeter or two  
5 different, and same pathway and tunneling that you do.

6 Q. What caused you to use the Exact over time  
7 as opposed to the Retropubic?

8 A. I think part of it is surgeons, especially  
9 reconstructive surgeons, we're always trying to figure  
10 out, you know, do we like this versus that, is this  
11 one better, that one better in our hands and handling  
12 it. Do we, you know -- and part of what we do in our  
13 practice is we also teach a fair amount. We are  
14 involved with fellowship training, so part of our --  
15 whether we choose one thing or another is to expose  
16 our fellows to a variety of different ways of treating  
17 it. Because if they're going to go out, especially  
18 our military fellows, that go out to a community or a  
19 smaller hospital or sort of a more isolated area, they  
20 may have only one thing that they have available  
21 versus the other.

22 So I think it was for me more just a little bit  
23 of a personal preference. The introducer in one is  
24 metal; the other one is plastic. I mean, there are  
25 really not a huge amount of difference. One is white;

1 the other is metal. So, you know, can you see one or  
2 the other more easily if you're looking inside the  
3 bladder.

4 So I think that's part of the reason that I,  
5 you know, made my transition. It's not anything to do  
6 with the mesh itself. And actually whether I use  
7 Boston Scientific or Exact or Retropubic, really it's  
8 not related to what I'm actually implanting. It is  
9 one's blue and the other thing is white, and one's  
10 white and the other thing is blue, and which one, you  
11 know, you may prefer to use.

12 I don't think that there is any ultimate  
13 clinical difference in the outcome of the two products  
14 with patients. In fact I was actually, you know,  
15 initially a little concerned when I went to the TVT  
16 Exact versus a slightly larger trocar that, although  
17 it was a smaller trocar, it might change my tactile  
18 ability to pass this, and, you know, is it going to be  
19 too easy to pass and you're going to lose that  
20 sensation.

21 So you're always just trying to find something  
22 that for you personally works the best. And since  
23 obviously one of my partners uses one, one of the  
24 partners uses the other, I sort of mix and match. We  
25 haven't really seen a clear difference between the

1 ultimate outcome in the different products, which is  
2 why we don't all do it exactly with one product.

3 Q. And when you talk about the ultimate  
4 outcome, you're talking about the complications that  
5 may occur as a result of, you know, any one of those  
6 various techniques?

7 A. Yes, success and efficacy, also plus  
8 potential complications.

9 Q. You were asked some questions about the  
10 learning curve associated with the TVT Retropubic  
11 device. The more traditional methods of approaching  
12 stress incontinence, for example, the Burch or the  
13 autologous sling, do they have learning curves that  
14 are different from the learning curve associated with  
15 the TVT Retropubic?

16 A. I believe so, yes. I think that the  
17 autologous sling is probably the most difficult of all  
18 of those procedures relative to a learning curve  
19 because, you know, simply harvesting it, passing it,  
20 there's not some of the same variables you can use for  
21 inserting it. It requires a little more invasiveness  
22 to be able to obtain the sample, especially if you're  
23 using a rectus fascia. If you're using a fascia lata  
24 graft, then it has to be harvested, so that's more  
25 involved. The --

1                   So the learning curve for, I think, a  
2                   traditional suburethral sling is probably the highest.  
3                   In Burch procedures, an open Burch procedure is, you  
4                   know, a moderately difficult procedure to do because  
5                   the position that you have to be in, you know,  
6                   stitching, you have to be able to sew essentially  
7                   pretty much with one hand in the vagina holding up the  
8                   tissue and another hand where you're going in the  
9                   abdomen. So it requires the surgeon to be much more  
10                  skilled at sewing one-handed, being able to get into  
11                  the retropubic space and working in a very small area,  
12                  especially if you're trying to do a small incision, is  
13                  very -- is more challenging. And the Burch done as a  
14                  laparoscopic procedure is probably one of the most  
15                  difficult laparoscopic procedures we do in our field.  
16                  It is even more challenging, let's say, than a  
17                  laparoscopic sacrocolpopexy.

18                 Q. You were asked some questions about factors  
19                 that may lead to mesh exposure. And, Dr. Horbach, is  
20                 lack of vaginal rest something that can lead to a mesh  
21                 exposure? And in answering that, would you explain  
22                 what vaginal rest is?

23                 MR. GRAND: Objection.

24                 THE WITNESS: We use the term vaginal rest  
25                 with our patients postoperatively to mean you don't

1 put anything in your vagina for a period of time and  
2 whether that is tampons or douching or sexual  
3 intercourse. So that if a patient were to do any of  
4 those things, especially the intercourse portion  
5 because that puts more stretch, during sort of too  
6 early prior to adequate healing, you could pull open  
7 or tear any of the tissue and potentially increase the  
8 risk of an exposure.

9 BY MS. WAHRENBERGER:

10 Q. Doctor, is it basic knowledge that pain can  
11 be chronic or temporary?

12 A. Absolutely. Both surgical, you know, any  
13 physician knows that essentially pain can be chronic  
14 or temporary, and surgeons certainly are aware that  
15 what they do with an operation and with cutting can  
16 result in temporary pain in the acute postoperative  
17 period or chronic pain in the long term.

18 Q. Is that medical knowledge, that is, that  
19 pain can be either temporary or chronic, applicable  
20 also to the pain that can be associated with sexual  
21 intercourse --

22 A. That --

23 Q. -- that it can be either temporary or  
24 chronic?

25 A. That pain with sexual intercourse can be

1 temporary or chronic? I think, yes, I think that  
2 information is known. It depends a little bit, again,  
3 on what the cause of the pain with intercourse is. If  
4 there is a reversible cause, then it's going to be  
5 more on a temporary basis. If it's potentially a  
6 nonreversible cause, then -- or the patient -- we  
7 sometimes have patients where we have given them  
8 options and they have chosen not to take those  
9 options, then it's going to be potentially chronic.

10 Q. Is it basic surgical knowledge -- excuse  
11 me -- that when an adverse reaction occurs, further  
12 surgery may become necessary to correct it?

13 MR. GRAND: Objection.

14 THE WITNESS: Yes. Any surgical discipline  
15 across the board, from day one of your training,  
16 you're aware that, if you have a complication from  
17 surgery, that it may require you to do additional  
18 surgery to correct it.

19 BY MS. WAHRENBERGER:

20 Q. Is it sometimes necessary to do more than  
21 one additional surgery depending upon the situation?

22 A. Unfortunately, yes, that is sometimes the  
23 case.

24 Q. Before you used the TVT Retropubic device,  
25 which you've told us you used for a number of years

1 before you started to use either the TVT Exact or the  
2 Boston Scientific sling, did you read the IFU that  
3 came with the package?

4 A. I actually never read the IFU prior to  
5 using the package.

6 Q. How did you know what the proper way to  
7 implant the device was and what the complications or  
8 potential adverse reactions were that were associated  
9 with it, if you never read the IFU?

10 A. I -- the -- knowing how to implant it or  
11 learning how to implant it was something that I  
12 learned, you know, more by demonstration, as I said,  
13 watching my partner and having my partner teach me  
14 more, I guess, the Kinesic, whatever, way of learning  
15 rather than reading specifically about it.

16 From the standpoint of potential complications  
17 associated with it, I had had a moderate amount of  
18 experience with use of Prolene mesh per se in other  
19 surgical procedures in the pelvis, and I certainly had  
20 had a fair amount of experience in doing sling  
21 procedures themselves and including sling procedures  
22 with synthetic materials.

23 So that the type of complications that were  
24 going to be specific for the TVT Retropubic weren't  
25 any different than really what my prior experience



1 clinically and operating had already indicated to me  
2 and/or my, you know, reading of the literature.

3 Q. And would that have gone back all the way  
4 to your training as a surgeon, that is, your residency  
5 training and your fellowship training?

6 A. Yes, more so probably in fellowship than  
7 per se residency, but, then, again, it depends on your  
8 residency and whether you have someone who does these  
9 types of procedures to be, you know, training you in  
10 the beginning.

11 Q. Is it your understanding that surgeons  
12 expect that a medical device's IFU will advise the  
13 doctor of all significant risks?

14 A. Yeah, I think that the expectation for the  
15 physician probably is that that would be included in  
16 an IFU, but, again, the majority of the physicians  
17 that I know, especially the surgeons that I know,  
18 will -- they're not going to begin to use a piece of  
19 equipment if they, you know, don't understand enough  
20 of what's going on. They're not going to go and rely  
21 just on the IFU as being their sole source of  
22 information, both in how to do it and why to do it and  
23 the potential risks involved in it. Most people, they  
24 have done their learning and their research and their  
25 education prior to ever, you know, getting in the

1 operating room to start using the device.

2 Q. The IFU itself is not expected to include  
3 every single solitary risk that could potentially  
4 occur, but rather the ones that are significant or  
5 material for the doctor to be aware of; is that the  
6 case?

7 A. I think that's --

8 MR. GRAND: Objection.

9 THE WITNESS: I think that's my  
10 understanding of, you know, what the IFU is designed  
11 to do. Again, surgeons may do surgery without ever  
12 looking at the IFU. So even if there never, I guess,  
13 was an IFU, you know, you're still potentially going  
14 to be doing the procedures, assuming that you have the  
15 appropriate knowledge and experience to potentially do  
16 that. It's not a prerequisite that you have to read  
17 the IFU and sign off on it or whatever before you can  
18 begin to do a surgical procedure.

19 BY MS. WAHRENBERGER:

20 Q. And the knowledge that the surgeon would be  
21 expected to have would be the various significant  
22 risks associated with a particular procedure, true?

23 A. Yes, that's what the knowledge that the  
24 surgeon should have prior to undertaking the  
25 procedure.

1 Q. What are the risks associated with pelvic  
2 floor surgery in your experience?

3 A. In discussing with patients, you know,  
4 risks of surgery, you know, pelvic floor primarily,  
5 you know, maybe stress incontinence issues, is we talk  
6 about the risk of bleeding during surgery, that the  
7 risk of bleeding is infrequently or rarely going to be  
8 sufficient to cause a health compromise to the patient  
9 that could require anything like a transfusion.

10 We talk about the risk of infection that is  
11 more in the immediate time period from the standpoint  
12 of incisional infections or abscesses or the  
13 possibility, especially in the post-op time of, let's  
14 say, urinary tract infection if the patient has to  
15 wear a catheter for a more extended period of time.

16 We talk about the risks of injury to the  
17 adjacent organs that we are operating nearby,  
18 including the urethra, the bladder, the ureters, the  
19 bowel, the major blood vessels in the area, or some of  
20 the major nerves in the area.

21 We talk about, you know, pain with -- in the  
22 short-term postoperatively and in the long-term  
23 postoperatively. We talk about risk of persistent  
24 stress incontinence or, theoretically, even worsening  
25 stress incontinence, the development of urge

1           incontinence, overactive bladder, or if the -- de novo  
2           essentially -- or if the patient has mixed  
3           incontinence that, following surgery, the mixed  
4           incontinence can, in some small number of women, it  
5           can get better. Most of the women probably there's  
6           not a major change, and in a small number of women it  
7           can get worse, and that that can require the patient  
8           to undergo further treatment.

9                   We talk about there could be voiding  
10          abnormalities or voiding dysfunction that could be  
11          minor changes versus significant enough to require  
12          further surgery to release the sling.

13                 We talk about the risk of erosion into the  
14          vaginal tissues, the urethra, or bladder that, again,  
15          could require additional surgery.

16                 We talk about obviously medical risks  
17          associated with surgery, from health issues, you know,  
18          that type of thing.

19                 Trying to think of anything ... I mean, those  
20          are, at least in our -- even for our practice, those  
21          are already preprinted on the consent form as we go  
22          through that and have the patient signing the consent  
23          form.

24                   MS. WAHRENBERGER: We're going to change  
25          the tapes.

1 VIDEO SPECIALIST: The time now is 2:45.

2 We are going off the record.

3 (Proceedings recessed.)

4 VIDEO SPECIALIST: The time now is 2:46.

5 We are back on the record.

6 BY MS. WAHRENBERGER:

7 Q. Do you talk about anesthesia risks?

8 A. Yes. Thank you. I do discuss anesthesia  
9 risks with the patient, and those risks are going to  
10 differ depending upon which procedure I do and which  
11 type of anesthesia might be necessary -- whether it's  
12 general anesthesia, with intubation, such as, you  
13 know, typically a Burch, and especially a laparoscopic  
14 Burch, regional anesthesia for open Burches and  
15 autologous slings, and typically IV sedation or, let's  
16 say, local anesthesia with or without IV sedation for  
17 a midurethral sling.

18 Q. We've already talked about the possible  
19 need for reoperation. Is that something you discuss  
20 with patients?

21 A. Yes, that's actually something we discuss  
22 with any patient who we're doing -- any type of  
23 reconstructive surgery on, whether it's incontinence,  
24 prolapse or a combination of both.

25 Q. Do you talk about the possibility of

1 pulmonary embolus or deep vein thrombosis, things of  
2 that sort?

3 A. Yes. Actually on our consent we have blood  
4 clots listed as a potential risk, and we talk about  
5 the steps that we do to try to reduce the likelihood  
6 of DVT or pulmonary embolus from the surgery.

7 Q. You mentioned erosion that you speak with  
8 your patients about. Does that occur only with  
9 synthetic slings?

10 A. No. You can see erosion with -- when  
11 permanent sutures are used that can erode through the  
12 vagina or into the bladder and you can see erosion  
13 with -- into the vagina, bladder, urethra, with any of  
14 the biologic materials.

15 With autologous fascia, you can see vaginal  
16 erosions maybe a little bit less, but you could  
17 certainly see urethral and bladder erosions even with  
18 autologous tissue.

19 Q. All of the risks that we've just discussed  
20 in the last few minutes, are they things that a  
21 trained doctor needs to read an IFU to know about?

22 A. I hope not. I would not expect so. I  
23 mean, these are things --

24 MR. GRAND: Objection.

25 THE WITNESS: -- that you would -- these

1 are things you would need to -- that you would learn  
2 during your residency and, you know, probably wouldn't  
3 pass your boards if you were not aware of these  
4 things, even as a general ob/gyn.

5 BY MS. WAHRENBERGER:

6 Q. Dr. Horbach, do you believe that the mesh  
7 that's used in the TVT Retropubic product is the state  
8 of the art?

9 A. From the standpoint of mesh itself in  
10 these -- in the midurethral slings, yeah, I think it  
11 is absolutely the best alternative and option that  
12 we've had for treating women, you know, for stress  
13 incontinence for years. I mean, it's the one typical  
14 thing that has stood more of a test of time than some  
15 of the other materials that we have used in the past  
16 in terms of, again, risk, you know, benefit profile  
17 for the patients, yeah.

18 Q. Would you agree that the TVT Retropubic  
19 device is the most studied SUI sling on the market?

20 A. I personally think --

21 MR. GRAND: Objection.

22 THE WITNESS: I think that the data would  
23 show that midurethral slings in general are the most  
24 studied incontinence procedure that we have period,  
25 and that, based on the number of Ethicon slings that

1 are done versus other companies, there's more data  
2 specifically on the Ethicon product than there are on  
3 the other products.

4 BY MS. WAHRENBARGER:

5 Q. Have you read any randomized control trials  
6 that indicate that the TVT mesh either degraded or was  
7 determined to be cytotoxic?

8 A. No.

9 Q. Have you seen erosions in the left lateral  
10 sulcus?

11 A. With --

12 Q. Ever.

13 A. Yes, I have seen erosions in the left  
14 periurethral, left sulcus area, yes.

15 Q. With any particular product do you see  
16 those erosions?

17 A. In my experience I have only seen them when  
18 an obturator sling has been done, a trans -- a  
19 transobturator sling, not when a retropubic sling has  
20 been done.

21 MS. WAHRENBARGER: I think that's all I  
22 have. Thank you.

23 MR. GRAND: I have a few follow-up  
24 questions, doctor.

25 EXAMINATION (continued)



1 BY MR. GRAND:

2 Q. Could a clinically significant inflammation  
3 cause an erosion?

4 A. A clinically significant inflammation could  
5 lead to an erosion. I'm not sure whether you could  
6 say it's causative, but you could see that as a  
7 sequelae of a clinically significant inflammation.

8 Q. Okay. With respect to -- you were asked  
9 some questions by counsel about foreign-body response.  
10 Do you recall that?

11 A. Yes.

12 Q. Okay. Would it be fair to say that the  
13 foreign body -- the foreign-body response to a piece  
14 of suture would not be the same as the foreign-body  
15 response to a piece of -- a much larger piece of mesh?

16 A. If you're talking about -- yeah, I mean,  
17 again, if it's a difference in the size and volume of  
18 the material, I think the foreign-body reaction will  
19 extend over more space if the material is over more  
20 space than if it's under less space -- over less  
21 space. Makes sense ...

22 Q. And you were asked some questions earlier  
23 asking you to discuss the differences or similarities  
24 between the TVT Retropubic and the TVT Exact. Do you  
25 recall that?

1 A. Yes.

2 Q. Okay. There have been some -- there are  
3 some differences in the procedure between the TVT  
4 Exact and the TVT Retropubic, correct?

5 MS. WAHRENBERGER: Object to the form of  
6 the question.

7 THE WITNESS: Yeah, I -- I think I would  
8 need you to be more specific about what you mean with  
9 the differences in the procedure.

10 BY MR. GRAND:

11 Q. Are you aware of any differences between  
12 the procedure described in the IFU between the TVT  
13 Exact and the TVT Retropubic?

14 MS. WAHRENBERGER: Do you mean how it's  
15 implanted, by "procedure"?

16 MR. GRAND: Are you -- are you testifying,  
17 counsel?

18 MS. WAHRENBERGER: No, no, I'm just trying  
19 to understand your question.

20 THE WITNESS: Your -- you do different --

21 MR. GRAND: She didn't say she couldn't  
22 understand it.

23 MS. WAHRENBERGER: Yes, she did.

24 MR. GRAND: And I rephrased it, and before  
25 she could answer you interrupted.

1 MS. WAHRENBERGER: It still wasn't clear.

2 THE WITNESS: Let me try to answer what I  
3 think you're asking me, and hopefully this is --

4 MS. WAHRENBERGER: Well, if you don't  
5 understand it, just say that.

6 BY MR. GRAND:

7 Q. Doctor, I'll withdraw the question and I'm  
8 going to re-ask it.

9 Are you aware of any differences in the  
10 procedure for implanting a TVT-R and a TVT Exact as  
11 described in the IFU for the product? Strike that.  
12 Let me rephrase it.

13 The TVT-R -- strike that.

14 The procedure for implanting the TVT-R at the  
15 time you first began using it in 2003 is different  
16 from the procedure to implant the TVT Exact as  
17 described in the current IFU; is that correct?

18 A. You know, I mean, there are differences in  
19 how it shows on the IFU, how you attach this and how  
20 you attach that and the size of incisions that you  
21 make, et cetera. So, yes, I guess there are  
22 differences.

23 Q. And the warnings that accompany -- the  
24 warnings of the TVT are -- today -- are different than  
25 the warnings that accompanied the TVT-R when you first

1 began using the product, correct?

2 MS. WAHRENBERGER: Object to the form of  
3 the question.

4 THE WITNESS: Yes, the current IFU is  
5 differently -- there are different wording in that  
6 versus the original.

7 BY MR. GRAND:

8 Q. And those same warnings are contained in  
9 the IFU for the Exact today, correct?

10 MS. WAHRENBERGER: Objection to the form of  
11 the question.

12 THE WITNESS: The same warnings from the  
13 original or the same warnings from the current?

14 BY MR. GRAND:

15 Q. Have you compared -- strike that. I don't  
16 need to ask that.

17 You were asked a question about whether the  
18 TVT-R reflects the state of the art. Do you recall  
19 that?

20 A. Yeah, I think that was the term. Yes.

21 Q. Okay. Do you have an understanding of what  
22 that term means in a legal sense?

23 MS. WAHRENBERGER: Objection to the form of  
24 the question.

25 THE WITNESS: I have an understanding of

1           what it means in the medical sense in terms of what we  
2           consider state of the art. I'm not sure if that's the  
3           same definition legally.

4           BY MR. GRAND:

5                   Q. Have you ever designed a mesh sling?

6                   A. I have -- I guess I would say in some ways,  
7           yes. It -- when I began using Gore-Tex or a  
8           polytetrafluoroethylene for slings, we fashioned and  
9           created the slings ourselves, yes.

10                   Again, your question, have I -- did I design  
11           the material of the sling? No. Did I design the  
12           sling and shape it and create it the way that I wanted  
13           to, to use in the operating room? Yes.

14                   Q. Okay. Have you ever designed a mesh sling  
15           for use by other doctors?

16                   A. No.

17                   Q. Have you read any of the design documents  
18           created by Ethicon in its development of the TVT-R?

19                   A. I did a long time ago, so I wouldn't be  
20           able to recall the specifics.

21                   Q. Okay. Do you have any idea of what the  
22           different considerations were undertaken by Ethicon in  
23           its design of the TVT-R?

24                   MS. WAHRENBERGER: Objection to the form.

25                   THE WITNESS: Again, I -- I'd have to look

1 back at the documents to be able to specify.

2 BY MR. GRAND:

3 Q. Doctor, do you hold yourself out as an  
4 expert on the design of medical devices?

5 A. I am not a material engineer, no.

6 Q. And at the time --

7 A. I'm not a biomedical engineer -- sorry --  
8 or a biomedical engineer, yes, I'm not that.

9 Q. At the time that the TVT was implanted in  
10 Mrs. Corbet in this case, which I'm going to represent  
11 to you was 2011, do you have any idea of what other  
12 design alternatives were available to Ethicon for its  
13 midurethral slings?

14 A. My understanding is that they looked at  
15 other materials to consider as alternatives to the  
16 mesh that was used in 2011.

17 Q. Your understanding is that in 2011 you have  
18 an understanding as to -- strike that.

19 Do you have any idea in the year 2011 what  
20 other -- what design options were available to Ethicon  
21 for its midurethral slings?

22 MS. WAHRENBERGER: This was just asked and  
23 answered.

24 THE WITNESS: Yes, I do have an  
25 understanding of some of the different design issues

1           that came into play. I mean, they -- the discussion  
2           was -- can't find it -- one of the issues, because  
3           they developed it around that time period, was the TVT  
4           Secur that was to ideally be a single-incision sling,  
5           avoid having to place --

6           BY MR. GRAND:

7                   Q. Doctor, I'm sorry to interrupt you, but I'm  
8           not asking you about -- I'm asking you about what  
9           options were available to them in 2011, not  
10          historically before that.

11                  A. Okay.

12                   MS. WAHRENBERGER: So you're asking if she  
13          knows what the options were available to Ethicon in  
14          2011 --

15           BY MR. GRAND:

16                   Q. Yes. Do you know if Ethicon --

17                   MS. WAHRENBERGER: -- for mesh design.

18           BY MR. GRAND:

19                   Q. -- had other materials?

20                  A. Yes.

21                   Q. Do you have any idea whether Ethicon had  
22          other materials they could have used in a midurethral  
23          sling in 2011?

24                  A. Thank you. That clarifies it. I'm sorry.

25                  Yes, I am aware that Ethicon had other materials that

1           it could use for the sling.

2                   Q.   What materials were those?

3                   A.   The question was whether or not -- they  
4           looked at the use of Ultra Pro, a combination, sort of  
5           a multifilament mesh that combined absorbable  
6           suture with -- absorbable fibers, Monocryl, plus the  
7           polypropylene fibers.  So that was one of the  
8           materials they had and looked at as an option for  
9           their sling material.  They also had Vypro as an  
10          alternative material to consider using at that time as  
11          well.  Those two I'm -- I'm aware that they had.

12                  Q.   Doctor, I'm sorry, I need about ten minutes  
13          for a telephone call, and then I just have like one or  
14          two more questions.

15                  A.   Okay.

16                       MR. GRAND:  But the Court is waiting.

17                       VIDEO SPECIALIST:  The time now is 3:03.

18          We are going off the record.

19                       (Proceedings recessed.)

20                       VIDEO SPECIALIST:  The time now is 3:32.

21          We are back on the record.

22          BY MR. GRAND:

23                  Q.   Dr. Horbach, you were asked questions by  
24          counsel regarding cytotoxicity.  Do you recall that?

25                  A.   I don't recall that we talked about



1 cytotoxicity.

2 Q. Okay. Have you reviewed any internal  
3 documents relating to cytotoxicity of Prolene mesh?

4 A. I've reviewed documents regarding that. I  
5 think some of them perhaps were Ethicon and then some  
6 additional -- some additional information in the  
7 literature.

8 Q. Okay. Do you have any opinions on whether  
9 or not the Prolene mesh that's used in the TVT  
10 Retropubic is cytotoxic?

11 A. Well, again, cytotoxicity from the  
12 standpoint -- I don't think that it has a risk of --  
13 or significant -- well, I don't think that it has  
14 issues related to carcinogenic potential from the  
15 standpoint of any type of cytotoxicity.

16 Q. Thank you, doctor. I don't have any  
17 further questions.

18 MS. WAHRENBARGER: Okay. I just have a  
19 couple. I'd like to go back to the questions you  
20 asked, Jeff, about the Ultra Pro and the Vypro, that  
21 series of questions.

22 EXAMINATION (resumed)

23 BY MS. WAHRENBARGER:

24 Q. Dr. Horbach, when you were answering  
25 questions about these two products, was it your

1 opinion or was it your intention to suggest that these  
2 were alternative designs that could have been utilized  
3 as the mesh product that would be part of a sling that  
4 could be implanted in a woman successfully, safely and  
5 efficaciously?

6 A. My comments about other products or other  
7 materials, I think, that Ethicon had was that Ethicon  
8 manufactured other types of mesh material, and Ethicon  
9 actually around that time period, I think, starting in  
10 2010, even looked at alternative mesh materials for  
11 its minimally invasive sling. One was the use of the  
12 Ultra Pro to give less -- less long-term permanent  
13 mesh fibers present, and that, with investigation, was  
14 found to not work as effectively in the sling  
15 situation because of the outer sheaths being sort of  
16 stuck or partially -- having more difficulty with  
17 removal and requiring more tension that placed the  
18 mesh suburethrally under more tension. So they were  
19 concerned about use of that.

20 Plus there had been some additional work  
21 looking at use of the Ultra Pro in more of a  
22 patch-type of sling situation, and it still had very  
23 similar erosion rates associated with it compared to  
24 what was designed for the original -- or designed with  
25 the typical Prolene mesh. Plus Ultra Pro hadn't been

1 FDA approved for use of -- in stress incontinence per  
2 se.

3 They also had Vypro as an alternative with an  
4 absorbable mesh, again, not FDA approved for this  
5 indication, but the limited amount of studies that I  
6 could find regarding any attempt at using that as a  
7 sling actually showed even more problems with  
8 reactivity in that material than even in the Ultra Pro  
9 or the standard Prolene that they were using for their  
10 mesh.

11 Q. Doctor, and do you explain the full extent  
12 of your opinion regarding these alternative substances  
13 that might have been considered for use as part of a  
14 sling in your supplemental report, the report that was  
15 dated December 15th, 2015?

16 A. Yes, I do.

17 Q. And beginning on page 24 under category D  
18 for the next three or four pages, all the way actually  
19 until page 29, is there a detailed discussion in your  
20 report of why these products that were available were  
21 determined not to be --

22 A. Optimal?

23 Q. Well, not to be --

24 A. Chosen?

25 Q. Just get the correct term -- not to be

1           either practical or technically feasible alternative  
2           designs?

3                   A.   Yes, in my supplemental report, as part of  
4           my response to some of the plaintiff's experts'  
5           allegations, I did discuss the possibility of other  
6           materials being used for the pros and cons.

7                   MS. WAHRENBARGER:   Thank you.   That's all I  
8           have.

9                   MR. GRAND:   I have nothing further.   Thank  
10          you, doctor.

11                   VIDEO SPECIALIST:   The time now is 3:38.  
12          This deposition has concluded.

13          //

14                   (The deposition of NICOLETTE S. HORBACH,  
15          M.D. adjourned at 3:38 p.m.)

16

17

18

19

20

21

22

23

24

25

Nicolette S. Horbach, M.D.

1		- - - - -
2		E R R A T A
3		- - - - -
4		
5	PAGE	LINE CHANGE
6	_____	_____
7	REASON:	_____
8	_____	_____
9	REASON:	_____
10	_____	_____
11	REASON:	_____
12	_____	_____
13	REASON:	_____
14	_____	_____
15	REASON:	_____
16	_____	_____
17	REASON:	_____
18	_____	_____
19	REASON:	_____
20	_____	_____
21	REASON:	_____
22	_____	_____
23	REASON:	_____
24	_____	_____
25	REASON:	_____

ACKNOWLEDGMENT OF DEPONENT

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

I, \_\_\_\_\_, do  
hereby certify that I have read the  
foregoing pages, and that the same is  
a correct transcription of the answers  
given by me to the questions therein  
propounded, except for the corrections or  
changes in form or substance, if any,  
noted in the attached Errata Sheet.

\_\_\_\_\_  
NICOLETTE S. HORBACH, M.D.                      DATE

Subscribed and sworn  
to before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

C E R T I F I C A T E

I, LINDA S. KINKADE, Registered Diplomat  
Reporter, Certified Realtime Reporter, Registered  
Merit Reporter, Certified Shorthand Reporter, and  
Notary Public, do hereby certify that prior to the  
commencement of examination the deponent herein was  
duly sworn by me to testify truthfully under penalty  
of perjury.

I FURTHER CERTIFY that the foregoing is a true  
and accurate transcript of the proceedings as reported  
by me stenographically to the best of my ability.

I FURTHER CERTIFY that I am neither counsel for  
nor related to nor employed by any of the parties to  
this case and have no interest, financial or  
otherwise, in its outcome.

IN WITNESS WHEREOF, I have hereunto set my hand  
and affixed my notarial seal this 25th day of December  
2015.

My commission expires: July 31, 2017

---

NOTARY PUBLIC IN AND FOR  
THE DISTRICT OF COLUMBIA